

Appendix A

Values RILADDRESS Parameter Constants
RIL_PARAM_A_TYPE

RIL_PARAM_A_NUMPLAN

RIL_PARAM_A_ADDRESS

RIL_PARAM_A_ALL

Comments None

Values RILAUDIODEVICEINFO Parameter Constants

RIL_PARAM_ADI_TXDEVICE

RIL_PARAM_ADI_RXDEVICE

RIL_PARAM_ADI_ALL

Comments None

Values RILBEARERSVCINFO Parameter Constants

RIL_PARAM_BSI_SPEED

RIL_PARAM_BSI_SERVICENAME

RIL_PARAM_BSI_CONNECTIONELEMENT

RIL_PARAM_BSI_ALL

Comments None

RILCALLERIDSETTINGS Parameter Constants

Values

RIL_PARAM_CIDS_PROVISIONING

RIL_PARAM_CIDS_STATUS

RIL_PARAM_CIDS_ALL

Comments None

RILCALLFORWARDINGSETTINGS Parameter Constants

Values

RIL_PARAM_CFS_STATUS

RIL_PARAM_CFS_INFOCLASSES

RIL_PARAM_CFS_ADDRESS

RIL_PARAM_CFS_SUBADDRESS

RIL_PARAM_CFS_DELAYTIME

RIL_PARAM_CFS_ALL

Comments None

RILCALLHSCSDINFO Parameter Constants

Values

RIL_PARAM_CHSCSDI_RXTIMESLOTS

RIL_PARAM_CHSCSDI_TXTIMESLOTS

RIL_PARAM_CHSCSDI_AIRINTERFACEUSERRATE

RIL_PARAM_CHSCSDI_CHANNELCODING

RIL_PARAM_CHSCSDI_ALL

Comments None

RILCALLINFO Parameter Constants

Values

RIL_PARAM_CI_ID

RIL_PARAM_CI_DIRECTION

RIL_PARAM_CI_STATUS

RIL_PARAM_CI_TYPE

RIL_PARAM_CI_MULTIPARTY

RIL_PARAM_CI_ADDRESS

RIL_PARAM_CI_DESCRIPTION

RIL_PARAM_CI_ALL

Comments None

RILCALLWAITINGINFO Parameter Constants

Values

RIL_PARAM_CWI_CALLTYPE

RIL_PARAM_CWI_CALLERINFO

RIL_PARAM_CWI_ADDRESSID

RIL_PARAM_CWI_ALL

Comments None

RILCAPSBARRINGPWDLENGTH Parameter Constants

Values

RIL_PARAM_CBPL_TYPE

RIL_PARAM_CBPL_PASSWORDLENGTH

RIL_PARAM_CBPL_ALL

Comments None

RILCAPSBEARERSVC Parameter Constants

Values	RIL_PARAM_CBS_SPEEDS1
	RIL_PARAM_CBS_SPEEDS2
	RIL_PARAM_CBS_SERVICENAMES
	RIL_PARAM_CBS_CONNECTIONELEMENTS
	RIL_PARAM_CBS_ALL
Comments	None

RILCAPSDIAL Parameter Constants

Values	RIL_PARAM_CD_CALLTYPES
	RIL_PARAM_CD_OPTIONS
	RIL_PARAM_CD_ALL
Comments	None

RILCAPSGPRS Parameter Constants

Values	RIL_PARAM_CGPRS_CLASS
	RIL_PARAM_CGPRS_MOSMSSERVICES
	RIL_PARAM_CGPRS_NUMGPRSPROTOCOLCAPS
	RIL_PARAM_CGPRS_GPRSPROTOCOLCAPS
	RIL_PARAM_CGPRS_ALL
Comments	None

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	<u>RILCAPSHSCSD Parameter Constants</u>
Values	RIL_PARAM_CHSCSD_MULTISLOTCLASS RIL_PARAM_CHSCSD_MAXRXTIMESLOTS RIL_PARAM_CHSCSD_MAXTXTIMESLOTS RIL_PARAM_CHSCSD_MAXTOTALTIMESLOTS RIL_PARAM_CHSCSD_CHANNELCODINGS RIL_PARAM_CHSCSD_AIRINTERFACEUSERRATES RIL_PARAM_CHSCSD_TOPRXTIMESLOTRANGE RIL_PARAM_CHSCSD_ALL
Comments	None
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	<u>RILCAPSLOCKINGPWDLENGTH Parameter Constants</u>
Values	RIL_PARAM_CLPL_FACILITY RIL_PARAM_CLPL_PASSWORDLENGTH RIL_PARAM_CLPL_ALL
Comments	None
<hr/>	
	<u>RILCAPSMMSGMEMORYLOCATIONS Parameter Constants</u>
Values	RIL_PARAM_CMML_READLOCATIONS RIL_PARAM_CMML_WRITELOCATIONS RIL_PARAM_CMML_STORELOCATIONS RIL_PARAM_CMML_ALL
Comments	None

RILCAPSRLP Parameter Constants

Values**RIL_PARAM_CRLP_VERSION****RIL_PARAM_CRLP_IWSRANGE****RIL_PARAM_CRLP_MWSRANGE****RIL_PARAM_CRLP_ACKTIMERRANGE****RIL_PARAM_CRLP_RETRANSMISSIONATTSRANGE****RIL_PARAM_CRLP_RESEQPERIODRANGE****RIL_PARAM_CRLP_ALL****Comments**

None

RILCAPSRLP Parameter Constants

RILCELLTOWERINFO Parameter Constants

Values

RIL_PARAM_CTI_MOBILECOUNTRYCODE
RIL_PARAM_CTI_MOBILENETWORKCODE
RIL_PARAM_CTI_LOCATIONAREACODE
RIL_PARAM_CTI_CELLID
RIL_PARAM_CTI_BASESTATIONID
RIL_PARAM_CTI_BROADCASTCONTROLCHANNEL
RIL_PARAM_CTI_RXLEVEL
RIL_PARAM_CTI_RXLEVELFULL
RIL_PARAM_CTI_RXLEVELSUB
RIL_PARAM_CTI_RXQUALITY
RIL_PARAM_CTI_RXQUALITYFULL
RIL_PARAM_CTI_RXQUALITYSUB
RIL_PARAM_CTI_IDLETIMESLOT
RIL_PARAM_CTI_TIMINGADVANCE
RIL_PARAM_CTI_GPRSCELLID
RIL_PARAM_CTI_GPRSBASESTATIONID
RIL_PARAM_CTI_ALL

Comments

None

RILCLOSEDGROUPSETTINGS Parameter Constants

Values

RIL_PARAM_CGS_STATUS

RIL_PARAM_CGS_INDEX

RIL_PARAM_CGS_INFO

RIL_PARAM_CGS_ALL

Comments None

RILCONNECTINFO Parameter Constants

Values

RIL_PARAM_CNI_CALLTYPE

RIL_PARAM_CNI_BAUDRATE

RIL_PARAM_CNI_ALL

Comments None

RILCOSTINFO Parameter Constants

Values

RIL_PARAM_CSTI_CCM

RIL_PARAM_CSTI_ACM

RIL_PARAM_CSTI_MAXACM

RIL_PARAM_CSTI_COSTPERUNIT

RIL_PARAM_CSTI_CURRENCY

RIL_PARAM_CSTI_ALL

Comments None

RILDATACOMPINFO Parameter Constants

Values

RIL_PARAM_DCI_DIRECTION

RIL_PARAM_DCI_NEGOTIATION

RIL_PARAM_DCI_MAXDICTENTRIES

RIL_PARAM_DCI_MAXSTRING

RIL_PARAM_DCI_ALL

Comments None

RILDIALEDIDSETTINGS Parameter Constants

Values

RIL_PARAM_DIDS_PROVISIONING

RIL_PARAM_DIDS_STATUS

RIL_PARAM_DIDS_ALL

Comments None

RILDIALINFO Parameter Constants

Values

RIL_PARAM_DI_CMDID

RIL_PARAM_DI_CALLID

RIL_PARAM_DI_ALL

Comments None

RILEQUIPMENTINFO Parameter Constants

Values

RIL_PARAM_EI_MANUFACTURER

RIL_PARAM_EI_MODEL

RIL_PARAM_EI_REVISION

RIL_PARAM_EI_SERIALNUMBER

RIL_PARAM_EI_ALL

Comments None

RILEQUIPMENTSTATE Parameter Constants

Values

RIL_PARAM_EQUIPMENTSTATE_RADIOSUPPORT

RIL_PARAM_EQUIPMENTSTATE_EQSTATE

Comments None

RILERRORCORRECTIONINFO Parameter Constants

Values

RIL_PARAM_ECI_ORIGINALREQUEST

RIL_PARAM_ECI_ORIGINALFALLBACK

RIL_PARAM_ECI_ANSWERERFALLBACK

RIL_PARAM_ECI_ALL

Comments None

<u>RILGAININFO Parameter Constants</u>	
Values	RIL_PARAM_GI_TXGAIN RIL_PARAM_GI_RXGAIN RIL_PARAM_GI_ALL
Comments	None

<u>RILGPRSCONTEXT Parameter Constants</u>	
Values	RIL_PARAM_GCONT_CONTEXTID RIL_PARAM_GCONT_PROTOCOLTYPE RIL_PARAM_GCONT_ACCESSPOINTNAME RIL_PARAM_GCONT_ADDRESS RIL_PARAM_GCONT_DATACOMPRESSION RIL_PARAM_GCONT_HEADERCOMPRESSION RIL_PARAM_GCONT_PARAMETERLENGTH RIL_PARAM_GCONT_PARAMETERS RIL_PARAM_GCONT_ALL
Comments	None

RILGPRSPROTOCOLCAPS Parameter Constants

Values

RIL_PARAM_GPC_PROTOCOLID

RIL_PARAM_GPC_MINCONTEXTID

RIL_PARAM_GPC_MAXCONTEXTID

RIL_PARAM_GPC_DATACOMPRESSION

RIL_PARAM_GPC_HEADERCOMPRESSION

RIL_PARAM_GPC_PRECEDENCECLASS

RIL_PARAM_GPC_DELAYCLASS

RIL_PARAM_GPC_RELIABILITYCLASS

RIL_PARAM_GPC_PEAKTHRUCLASS

RIL_PARAM_GPC_MEANTHRUCLASS

RIL_PARAM_GPC_PARAMETERLENGTH

RIL_PARAM_GPC_PARAMETERS

RIL_PARAM_GPC_ALL

Comments

None

RILGPRSQOSPROFILE Parameter Constants

Values	RIL_PARAM_GQOSP_CONTEXTID RIL_PARAM_GQOSP_PRECEDENCECLASS RIL_PARAM_GQOSP_DELAYCLASS RIL_PARAM_GQOSP_RELIABILITYCLASS RIL_PARAM_GQOSP_PEAKTHRUCLASS RIL_PARAM_GQOSP_MEANTHRUCLASS RIL_PARAM_GQOSP_ALL
Comments	None

RILHIDECONNECTEDIDSETTINGS Parameter Constants

Values	RIL_PARAM_HCIDS_PROVISIONING RIL_PARAM_HCIDS_STATUS RIL_PARAM_HCIDS_ALL
Comments	None

RILHIDEIDSETTINGS Parameter Constants

Values	RIL_PARAM_HIDS_STATUS RIL_PARAM_HIDS_PROVISIONING RIL_PARAM_HIDS_ALL
Comments	None

RILHSCSDINFO Parameter Constants

Values

RIL_PARAM_HSCSDI_TRANSPRXTIMESLOTS

RIL_PARAM_HSCSDI_TRANSPCHANNELCODINGS

RIL_PARAM_HSCSDI_NONTRANSPRXTIMESLOTS

RIL_PARAM_HSCSDI_NONTRANSPCHANNELCODINGS

RIL_PARAM_HSCSDI_AIRINTERFACEUSERRATE

RIL_PARAM_HSCSDI_RXTIMESLOTSLIMIT

RIL_PARAM_HSCSDI_AUTOSVCLEVELUPGRADING

RIL_PARAM_HSCSDI_ALL

Comments

None

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RIL_PARAM_M_MSGLENGTH

RIL_PARAM_M_CMDLENGTH

RIL_PARAM_M_HDR

RIL_PARAM_M_MSG

RIL_PARAM_M_CMD

RIL_PARAM_M_MSG

RIL_PARAM_M_MSG

RIL_PARAM_M_MSG

RIL_PARAM_M_CMD

RIL_PARAM_M_MSG

RIL_PARAM_M_MSG

Comments None

RILMESSAGE IN SIM Parameter Constants

Values 0x00000001

0x00000002

Comments None

RILMESSAGEINFO Parameter Constants

Values RIL_PARAM_MI_INDEX

RIL_PARAM_MI_STATUS

RIL_PARAM_MI_MESSAGE

Comments None

RILMSGCONFIG Parameter Constants

Values	RIL_PARAM_MC_SVCCTRADDRESS
	RIL_PARAM_MC_BROADCASTMSGIDS
	RIL_PARAM_MC_BROADCASTMSGLANGS
	RIL_PARAM_MC_ALL
Comments	None

RILMSGDCS Parameter Constants

Values	RIL_PARAM_MDCS_TYPE
	RIL_PARAM_MDCS_FLAGS
	RIL_PARAM_MDCS_MSGCLASS
	RIL_PARAM_MDCS_ALPHABET
	RIL_PARAM_MDCS_INDICATION
	RIL_PARAM_MDCS_LANGUAGE
	RIL_PARAM_MDCS_ALL
Comments	None

RIL_PARAM_MSI_SERVICE

RIL PARAM MSI MSGCLASSES

RIL_PARAM_MSI_READLOCATION

RIL PARAM MSI READUSED

RIL_PARAM_MSI_READTOTAL

RIL PARAM MSI WRITELOCATION

RIL_PARAM_MSI_WRITEUSED

RIL PARAM MSI WRITETOTAL

RIL PARAM MSI STORELOCATION

RIL PARAM MSI STOREUSED

RIL_PARAM_MSI_STORETOTAL

RIL_PARAM_MSI_ALL

Comments

None

Values

RIL_PARAM_MSTI_READLOCATION

RIL PARAM MSTI WRITELOCATION

RIL_PARAM_MSTI_STORELOCATION

RIL_PARAM_MSTI_ALL

Comments

None

RILOPERATORINFO Parameter Constants

Values **RIL_PARAM_OI_INDEX**
RIL_PARAM_OI_STATUS
RIL_PARAM_OI_NAMES
RIL_PARAM_OI_ALL

Comments None

RILOPERATORNAMES Parameter Constants

Values **RIL_PARAM_ON_LONGNAME**
RIL_PARAM_ON_SHORTNAME
RIL_PARAM_ON_NUMNAME
RIL_PARAM_ON_ALL

Comments None

RILPHONEBOOKENTRY Parameter Constants

Values **RIL_PARAM_PBE_INDEX**
RIL_PARAM_PBE_ADDRESS
RIL_PARAM_PBE_TEXT
RIL_PARAM_PBE_ALL

Comments None

RILPHONEBOOKINFO Parameter Constants

Values	RIL_PARAM_PBI_STORELOCATION
	RIL_PARAM_PBI_USED
	RIL_PARAM_PBI_TOTAL
	RIL_PARAM_PBI_ALL
Comments	None

RILREMOTEPARTYINFO Parameter Constants

Values	RIL_PARAM_RPI_ADDRESS
	RIL_PARAM_RPI_SUBADDRESS
	RIL_PARAM_RPI_DESCRIPTION
	RIL_PARAM_RPI_VALIDITY
	RIL_PARAM_RPI_ALL
Comments	None

RILRINGINFO Parameter Constants

Values	RIL_PARAM_RI_CALLTYPE
	RIL_PARAM_RI_SERVICEINFO
	RIL_PARAM_RI_ADDRESSID
	RIL_PARAM_RI_ALL
Comments	None

RILRLPINFO Parameter Constants

Values	RIL_PARAM_RLPI_IWS
	RIL_PARAM_RLPI_MWS
	RIL_PARAM_RLPI_ACKTIMER
	RIL_PARAM_RLPI_RETRANSMISSIONATTEMPTS
	RIL_PARAM_RLPI_VERSION
	RIL_PARAM_RPLI_RESEQUENCINGPERIOD
	RIL_PARAM_RPLI_ALL

Comments	None
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RILSERIALPORTSTATS Parameter Constants

Values	RIL_PARAM_SPS_READBITSPERSECOND
	RIL_PARAM_SPS_WRITTENBITSPERSECOND
	RIL_PARAM_SPS_ALL

Comments	None
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RILSERVICEINFO Parameter Constants

Values	RIL_PARAM_SVCI_SYNCHRONOUS
	RIL_PARAM_SVCI_TRANSPARENT
	RIL_PARAM_SVCI_ALL

Comments	None
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RILSIGNALQUALITY Parameter Constants

Values	RIL_PARAM_SQ_SIGNALSTRENGTH
	RIL_PARAM_SQ_MINSIGNALSTRENGTH
	RIL_PARAM_SQ_MAXSIGNALSTRENGTH
	RIL_PARAM_SQ_BITERRORRATE
	RIL_PARAM_SQ_LOWSIGNALSTRENGTH
	RIL_PARAM_SQ_HIGHSIGNALSTRENGTH
	RIL_PARAM_SQ_ALL
Comments	None

RILSIMCMDPARAMETERS Parameter Constants

Values	RIL_PARAM_SCP_FILEID
	RIL_PARAM_SCP_PARAM1
	RIL_PARAM_SCP_PARAM2
	RIL_PARAM_SCP_PARAM3
	RIL_PARAM_SCP_ALL
Comments	None

RILSIMRECORDSTATUS Parameter Constants

Values	RIL_PARAM_SRS_RECORDTYPE
	RIL_PARAM_SRS_ITEMCOUNT
	RIL_PARAM_SRS_SIZE
	RIL_PARAM_SRS_ALL
Comments	None

Values	RIL_PARAM_SR_STATUSWORD1
	RIL_PARAM_SR_STATUSWORD2
	RIL_PARAM_SR_RESPONSE
	RIL_PARAM_SR_ALL

Comments	None
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RILSIMTOOLKITNOTIFYCAPS Parameter Constants

Values

RIL_PARAM_SIMTKN_REFRESH

RIL_PARAM_SIMTKN_MORETIME

RIL_PARAM_SIMTKN_POLLINTERVAL

RIL_PARAM_SIMTKN_POLLINGOFF

RIL_PARAM_SIMTKN_SETUPCALL

RIL_PARAM_SIMTKN_SENDSS

RIL_PARAM_SIMTKN_SENDSMS

RIL_PARAM_SIMTKN_PLAYTONE

RIL_PARAM_SIMTKN_DISPLAYTEXT

RIL_PARAM_SIMTKN_GETINKEY

RIL_PARAM_SIMTKN_GETINPUT

RIL_PARAM_SIMTKN_SELECTITEM

RIL_PARAM_SIMTKN_SETUPMENU

RIL_PARAM_SIMTKN_LOCALINFO

RIL_PARAM_SIMTKN_NOTIFYFLAGS

RIL_PARAM_SIMTKN_ALL

Comments

Parameters for LPRILSIMTOOLKITNOTIFYCAPS -> dwParams

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for "ZK69750"

RILSIMTOOLKITNOTIFYCAPS Parameter Constants

RILSUBADDRESS Parameter Constants

Values	RIL_PARAM_SA_TYPE
	RIL_PARAM_SA_SUBADDRESS
	RIL_PARAM_SA_ALL
Comments	None

RILSUBSCRIBERINFO Parameter Constants

Values	RIL_PARAM_SI_ADDRESS
	RIL_PARAM_SI_DESCRIPTION
	RIL_PARAM_SI_SPEED
	RIL_PARAM_SI_SERVICE
	RIL_PARAM_SI_ITC
	RIL_PARAM_SI_ADDRESSID
	RIL_PARAM_SI_ALL
Comments	None

RILSUPSERVICEDATA Parameter Constants

Values	RIL_PARAM_SSDI_STATUS
	RIL_PARAM_SSDI_DATA
Comments	None

Address Type Constants

Description Values	Different phone number representations RIL_ADDRTYPE_UNKNOWN <i>Unknown type</i> RIL_ADDRTYPE_INTERNATIONAL <i>International number</i> RIL_ADDRTYPE_NATIONAL <i>National number</i> RIL_ADDRTYPE_NETWORKSPECIFIC <i>Network specific number</i> RIL_ADDRTYPE_SUBSCRIBER <i>Subscriber number (protocol-specific)</i> RIL_ADDRTYPE_ALPHANUM <i>Alphanumeric address</i> RIL_ADDRTYPE_ABBREV <i>Abbreviated number</i>
Comments	None

API Result Constants

Description Values	API call results (RIL_NCLASS_FUNCRESULT) RIL_RESULT_OK <i>RIL API call succeeded; lpData is NULL</i> RIL_RESULT_NOCARRIER <i>RIL API failed because no carrier was detected; lpData is NULL</i> RIL_RESULT_ERROR <i>RIL API failed; lpData points to RIL_E_* constant</i> RIL_RESULT_NODIALTONE <i>RIL API failed because no dialtone was detected; lpData is NULL</i> RIL_RESULT_BUSY <i>RIL API failed because the line was busy; lpData is NULL</i> RIL_RESULT_NOANSWER <i>RIL API failed because of the lack of answer; lpData is NULL</i>
Comments	None

Audio Device Constants

Description	Audio devices
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Values	RIL_AUDIO_NONE <i>No audio devices</i>
	RIL_AUDIO_HANDSET <i>Handset</i>
	RIL_AUDIO_SPEAKERPHONE <i>Speakerphone</i>
	RIL_AUDIO_HEADSET <i>Headset</i>
	RIL_AUDIO_CARKIT <i>Carkit</i>
Comments	None

Bearer CE Constants

Description Values	Bearer service connection element capabilities
	RIL_CAPS_BSVCCCE_TRANSPARENT <i>TBD</i>
	RIL_CAPS_BSVCCCE_NONTRANSPARENT <i>TBD</i>
	RIL_CAPS_BSVCCCE_BOTH_TRANSPARENT <i>TBD</i>
	RIL_CAPS_BSVCCCE_BOTH_NONTRANSPARENT <i>TBD</i>
Comments	None

Bearer Service Constants

Description Values	Bearer service names
	RIL_BSVCCNAME_UNKNOWN <i>TBD</i>
	RIL_BSVCCNAME_DATACIRCUIT_ASYNC_UDI_MODEM <i>TBD</i>
	RIL_BSVCCNAME_DATACIRCUIT_SYNC_UDI_MODEM <i>TBD</i>
	RIL_BSVCCNAME_PADACCESS_ASYNC_UDI <i>TBD</i>
	RIL_BSVCCNAME_PACKETACCESS_SYNC_UDI <i>TBD</i>
	RIL_BSVCCNAME_DATACIRCUIT_ASYNC_RDI <i>TBD</i>

RIL_BSVNAME_DATACIRCUIT_SYNC_RDI
TBD

RIL_BSVNAME_PADACCESS_ASYNC_RDI
TBD

RIL_BSVNAME_PACKETACCESS_SYNC_RDI
TBD

Comments None

Bearer Service CE Constants

Description Values Bearer service connection elements

RIL_BSVCE_UNKNOWN
Bearer service unknown

RIL_BSVCE_TRANSPARENT
Link layer correction enabled

RIL_BSVCE_NONTRANSPARENT
No link layer correction present

RIL_BSVCE_BOTH_TRANSPARENT
Both available, transparent preferred

RIL_BSVCE_BOTH_NONTRANSPARENT
Both available, non-transparent preferred

Comments None

Bit Error Rate Constants

Description Values Special bit error rate value

RIL_BITERRORRATE_UNKNOWN
Unknown signal strength

Comments None

Call Barr Facility Constants

Description Values Types of call barring

RIL_BARRTYPE_ALLOUTGOING
Barr all outgoing calls

RIL_BARRTYPE_OUTGOINGINT
Barr outgoing international calls

RIL_BARRTYPE_OUTGOINGINTEXTOHME
Barr outgoing international calls except to home country

RIL_BARRTYPE_ALLINCOMING

Barr all incoming calls

RIL_BARRTYPE_INCOMINGROAMING

Barr incoming calls when roaming outside of home country

RIL_BARRTYPE_INCOMINGNOTINSIM

Barr incoming calls from numbers not stored to SIM memory

RIL_BARRTYPE_ALLBARRING

All barring services

RIL_BARRTYPE_ALLOUTGOINGBARRING

All outgoing barring services

RIL_BARRTYPE_ALLINCOMINGBARRING

All incoming barring services

Comments

None

Call Barr Status Constants

Description Values

Status values for call barring

RIL_BARRINGSTATUS_DISABLED

Disable

RIL_BARRINGSTATUS_ENABLED

Disable

Comments

None

Call Direction Constants

Description Values

Call direction

RIL_CALLDIR_INCOMING

Incoming call

RIL_CALLDIR_OUTGOING

Outgoing call

Comments

None

Call Management Constants

Description Values

Call management commands

RIL_CALLCMD_RELEASEHELD

Release all held calls, send "busy" to waiting call

RIL_CALLCMD_RELEASEACTIVE_ACCEPTHELD

Release all active calls, accept waiting/held call

RIL_CALLCMD_RELEASECALL
Release the specified call

RIL_CALLCMD_HOLDACTIVE_ACCEPTHELD
Hold all active calls, accept waiting/held call

RIL_CALLCMD_HOLDALLBUTONE
Hold all active calls, except for the specified call

RIL_CALLCMD_ADDHELDTOCONF
Add all held calls to a conference

RIL_CALLCMD_ADDHELDTOCONF_DISCONNECT
Connect held calls to a conference, disconnect the user

RIL_CALLCMD_INVOKECCBS
Invokes completion of calls to busy subscribers

Comments None

Call Multiparty Constants

Description Values Call multiparty status values

RIL_CALL_SINGLEPARTY
Not in a conference

RIL_CALL_MULTIPARTY
Participating in a conference

Comments None

Call Option Constants

Description Values Call options defaults

RIL_DIALTONEWAIT_DEFAULT
TBD

RIL_DIALTIMEOUT_DEFAULT
TBD

RIL_COMMPAUSE_DEFAULT
TBD

RIL_DISCONNECTTIMEOUT_DEFAULT
TBD

Comments None

Call Status Constants

Description Call status values

Values	RIL_CALLSTAT_ACTIVE <i>Active call</i>
	RIL_CALLSTAT_ONHOLD <i>Call on hold</i>
	RIL_CALLSTAT_DIALING <i>In the process of dialing</i>
	RIL_CALLSTAT_ALERTING <i>In the process of ringing</i>
	RIL_CALLSTAT_INCOMING <i>Incoming (unanswered) call</i>
	RIL_CALLSTAT_WAITING <i>Incoming call waiting call</i>
Comments	None

Call Type Constants

Description Values	Call types
	RIL_CALLTYPE_UNKNOWN <i>Unknown</i>
	RIL_CALLTYPE_VOICE <i>Voice call</i>
	RIL_CALLTYPE_DATA <i>Data call</i>
	RIL_CALLTYPE_FAX <i>Fax call</i>
Comments	None

Caps Bearer Name Constants

Description Values	Bearer service name capabilities
	RIL_CAPS_BSVNAME_DATACIRCUIT_ASYNC_UDI_MODEM <i>TBD</i>
	RIL_CAPS_BSVNAME_DATACIRCUIT_SYNC_UDI_MODEM <i>TBD</i>
	RIL_CAPS_BSVNAME_PADACCESS_ASYNC_UDI <i>TBD</i>
	RIL_CAPS_BSVNAME_PACKETACCESS_SYNC_UDI <i>TBD</i>
	RIL_CAPS_BSVNAME_DATACIRCUIT_ASYNC_RDI <i>TBD</i>

	RIL_CAPS_BSVCTYPE_DATA_CIRCUIT_SYNC_RDI
	TBD
	RIL_CAPS_BSVCTYPE_PACKET_ACCESS_ASYNC_RDI
	TBD
	RIL_CAPS_BSVCTYPE_PACKET_ACCESS_SYNC_RDI
	TBD
Comments	None

Caps Bearer Speed1 Constants

Description Values	Bearer service speed capabilities (first set)
	RIL_CAPS_SPEED1_AUTO
	TBD
	RIL_CAPS_SPEED1_300_V21
	TBD
	RIL_CAPS_SPEED1_300_V110
	TBD
	RIL_CAPS_SPEED1_1200_V22
	TBD
	RIL_CAPS_SPEED1_1200_75_V23
	TBD
	RIL_CAPS_SPEED1_1200_V110
	TBD
	RIL_CAPS_SPEED1_1200_V120
	TBD
	RIL_CAPS_SPEED1_2400_V22BIS
	TBD
	RIL_CAPS_SPEED1_2400_V26TER
	TBD
	RIL_CAPS_SPEED1_2400_V110
	TBD
	RIL_CAPS_SPEED1_2400_V120
	TBD
	RIL_CAPS_SPEED1_4800_V32
	TBD
	RIL_CAPS_SPEED1_4800_V110
	TBD
	RIL_CAPS_SPEED1_4800_V120
	TBD
	RIL_CAPS_SPEED1_9600_V32
	TBD

RIL_CAPS_SPEED2_56000_TRANSP
TBD

RIL_CAPS_SPEED2_64000_TRANSP
TBD

Comments None

Caps Call Barr Constants

Description Call barring capabilities
Values RIL_CAPS_BARRTYPE_ALLOUTGOING
TBD
RIL_CAPS_BARRTYPE_OUTGOINGINT
TBD
RIL_CAPS_BARRTYPE_OUTGOINGINTEXTTOHOME
TBD
RIL_CAPS_BARRTYPE_ALLINCOMING
TBD
RIL_CAPS_BARRTYPE_INCOMINGROAMING
TBD
RIL_CAPS_BARRTYPE_INCOMINGNOTINSIM
TBD
RIL_CAPS_BARRTYPE_ALLBARRING
TBD
RIL_CAPS_BARRTYPE_ALLOUTGOINGBARRING
TBD
RIL_CAPS_BARRTYPE_ALLINCOMINGBARRING
TBD

Comments None

Caps Call Mgmt Constants

Description Call management command capabilities
Values RIL_CAPS_CALLCMD_RELEASEHELD
TBD
RIL_CAPS_CALLCMD_RELEASEACTIVE_ACCEPTHELD
TBD
RIL_CAPS_CALLCMD_RELEASECALL
TBD
RIL_CAPS_CALLCMD_HOLDACTIVE_ACCEPTHELD
TBD

RIL_CAPS_CALLCMD_HOLDALLBUTONE
TBD
RIL_CAPS_CALLCMD_ADDHELDTOCONF
TBD
RIL_CAPS_CALLCMD_ADDHELDTOCONF_DISCONNECT
TBD
RIL_CAPS_CALLCMD_INVOKECCBS
TBD

Comments None

Caps Call Type Constants

Description Call type capabilities
Values RIL_CAPS_CALLTYPE_VOICE
TBD
RIL_CAPS_CALLTYPE_DATA
TBD
RIL_CAPS_CALLTYPE_FAX
TBD

Comments None

Caps DCS Language Constants

Description Message broadcast data coding scheme language capabilities
Values RIL_DCSLANG_GERMAN
TBD
RIL_DCSLANG_ENGLISH
TBD
RIL_DCSLANG_ITALIAN
TBD
RIL_DCSLANG_FRENCH
TBD
RIL_DCSLANG_SPANISH
TBD
RIL_DCSLANG_DUTCH
TBD
RIL_DCSLANG_SWEDISH
TBD
RIL_DCSLANG_DANISH
TBD

RIL_DCSLANG_PORTUGUESE
TBD

RIL_DCSLANG_FINNISH
TBD

RIL_DCSLANG_NORWEGIAN
TBD

RIL_DCSLANG_GREEK
TBD

RIL_DCSLANG_TURKISH
TBD

RIL_DCSLANG_HUNGARIAN
TBD

RIL_DCSLANG_POLISH
TBD

RIL_DCSLANG_CZECH
TBD

Comments None

Caps Dialing Option Constants

Description Values Dialing options capabilities
RIL_CAPS_DIALOPT_RESTRICTID
TBD

RIL_CAPS_DIALOPT_PRESENTID
TBD

RIL_CAPS_DIALOPT_CLOSEDGROUP
TBD

Comments None

Caps Equipment Constants

Description Values Equipment state capabilities
RIL_CAPS_EQSTATE_MINIMUM
TBD

RIL_CAPS_EQSTATE_FULL
TBD

RIL_CAPS_EQSTATE_DISABLETX
TBD

RIL_CAPS_EQSTATE_DISABLELTX
TBD

	RIL_CAPS_EQSTATE_DISABLETXANDRX <i>TBD</i>
Comments	None

Caps Forwarding Constants

Description	Forwarding reason capabilities
Values	RIL_CAPS_FWDREASON_UNCONDITIONAL <i>TBD</i>
	RIL_CAPS_FWDREASON_MOBILEBUSY <i>TBD</i>
	RIL_CAPS_FWDREASON_NOREPLY <i>TBD</i>
	RIL_CAPS_FWDREASON_UNREACHABLE <i>TBD</i>
	RIL_CAPS_FWDREASON_ALLFORWARDING <i>TBD</i>
	RIL_CAPS_FWDREASON_ALLCONDITIONAL <i>TBD</i>
Comments	None

Caps HSCSD Air Interface Constants

Description	HSCSD air interface user rate capabilities
Values	RIL_CAPS_HSCSDAIURATE_9600 <i>TBD</i>
	RIL_CAPS_HSCSDAIURATE_14400 <i>TBD</i>
	RIL_CAPS_HSCSDAIURATE_19200 <i>TBD</i>
	RIL_CAPS_HSCSDAIURATE_28800 <i>TBD</i>
	RIL_CAPS_HSCSDAIURATE_38400 <i>TBD</i>
	RIL_CAPS_HSCSDAIURATE_43200 <i>TBD</i>
	RIL_CAPS_HSCSDAIURATE_57600 <i>TBD</i>
Comments	None

Caps HSCSD Traffic Channel Constants

Description	HSCSD traffic channel coding capabilities
Values	RIL_CAPS_HSCSDCODING_4800_FULLRATE <i>TBD</i> RIL_CAPS_HSCSDCODING_9600_FULLRATE <i>TBD</i> RIL_CAPS_HSCSDCODING_14400_FULLRATE <i>TBD</i>
Comments	None

Caps Info Class Constants

Description	Telephony information class capabilities
Values	RIL_CAPS_INFOCLASS_VOICE <i>TBD</i> RIL_CAPS_INFOCLASS_DATA <i>TBD</i> RIL_CAPS_INFOCLASS_FAX <i>TBD</i> RIL_CAPS_INFOCLASS_SMS <i>TBD</i> RIL_CAPS_INFOCLASS_DATACIRCUITSYNC <i>TBD</i> RIL_CAPS_INFOCLASS_DATACIRCUITASYNC <i>TBD</i> RIL_CAPS_INFOCLASS_PACKETACCESS <i>TBD</i> RIL_CAPS_INFOCLASS_PADACCESS <i>TBD</i>
Comments	None

Caps Message Service Constants

Description	Message service type capabilities
Values	RIL_CAPS_MSGSVCTYPE_PHASE2 <i>TBD</i> RIL_CAPS_MSGSVCTYPE_PHASE2PLUS <i>TBD</i>

Comments	None
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Caps Message Status Constants

Description	Message status capabilities
Values	RIL_CAPS_MSGSTATUS_RECUNREAD <i>TBD</i> RIL_CAPS_MSGSTATUS_RECREAD <i>TBD</i> RIL_CAPS_MSGSTATUS_STOUNSENT <i>TBD</i> RIL_CAPS_MSGSTATUS_STOSENT <i>TBD</i>
Comments	None

Caps Message Storage Constants

Description	Message storage location capabilities
Values	RIL_CAPS_MSGLOC_BROADCAST <i>TBD</i> RIL_CAPS_MSGLOC_SIM <i>TBD</i> RIL_CAPS_MSGLOC_STATUSREPORT <i>TBD</i>
Comments	None

Caps Phone Lock Constants

Description	Locking faciliy capabilities
Values	RIL_CAPS_LOCKFACILITY_CNTRL <i>TBD</i> RIL_CAPS_LOCKFACILITY_PH_SIM <i>TBD</i> RIL_CAPS_LOCKFACILITY_PH_FSIM <i>TBD</i> RIL_CAPS_LOCKFACILITY_SIM <i>TBD</i> RIL_CAPS_LOCKFACILITY_SIM_PIN2 <i>TBD</i>

RIL_CAPS_LOCKFACILITY_SIM_FIXEDIALING
TBD

RIL_CAPS_LOCKFACILITY_NETWORKPERS
TBD

RIL_CAPS_LOCKFACILITY_NETWORKSUBPERS
TBD

RIL_CAPS_LOCKFACILITY_SERVICEPROVPERS
TBD

RIL_CAPS_LOCKFACILITY_CORPPERS
TBD

Comments None

Caps Phonebook Constants

Description Values Phonebook storage location capabilities
RIL_CAPS_PBLOC_SIMEMERGENCY
TBD
RIL_CAPS_PBLOC_SIMFIXDIALING
TBD
RIL_CAPS_PBLOC_SIMLASTDIALING
TBD
RIL_CAPS_PBLOC_OWNNUMBERS
TBD
RIL_CAPS_PBLOC_SIMPHONEBOOK
TBD

Comments None

Caps SIM Toolkit Constants

Description Values SIM Toolkit notification capabilities
RIL_CAPS_NOTIFY_SIMTOOLKITCMD
TBD
RIL_CAPS_NOTIFY_SIMTOOLKITCALLSETUP
TBD
RIL_CAPS_NOTIFY_SIMTOOLKITEVENT
TBD

Comments None

**Description
Values**

Caps Type Constants

Capability types

RIL_CAPSTYPE_DIAL

TBD

RIL_CAPSTYPE_DTMFDURATIONRANGE

TBD

RIL_CAPSTYPE_CALLMGTCMDS

TBD

RIL_CAPSTYPE_BEARERSERVICE

TBD

RIL_CAPSTYPE_RLP

TBD

RIL_CAPSTYPE_EQUIPMENTSTATES

TBD

RIL_CAPSTYPE_PBSTORELOCATIONS

TBD

RIL_CAPSTYPE_PBINDEXRANGE

TBD

RIL_CAPSTYPE_PBENTRYTEXTLENGTH

TBD

RIL_CAPSTYPE_MSGSERVICETYPES

TBD

RIL_CAPSTYPE_MSGMEMORYLOCATIONS

TBD

RIL_CAPSTYPE_BROADCASTMSGLANGS

TBD

RIL_CAPSTYPE_MSGCONFIGINDEXRANGE

TBD

RIL_CAPSTYPE_MSGSTATUSVALUES

TBD

RIL_CAPSTYPE_PREFOPINDEXRANGE

TBD

RIL_CAPSTYPE_LOCKFACILITIES

TBD

RIL_CAPSTYPE_LOCKINGPWDLENGTHS

TBD

RIL_CAPSTYPE_BARRTYPES

TBD

RIL_CAPSTYPE_BARRINGPWDLENGTHS

TBD

CUG Special Constants

Description	Closed User Group special index value
Values	RIL_CUGINDEX_NONE <i>Used to identify the absence of CUG index</i>
Comments	None

Data Compression Constants

Description	Data compression directions
Values	RIL_DATACOMPDIR_NONE <i>No data compression</i> RIL_DATACOMPDIR_TRANSMIT <i>Data compression when sending</i> RIL_DATACOMPDIR_RECEIVE <i>Data compression when receiving</i> RIL_DATACOMPDIR_BOTH <i>Bi-directional data compression</i>
Comments	None

Data Compression Negotiation Constants

Description	Data compression negotiation options
Values	RIL_DATACOMP_OPTIONAL <i>Data compression optional</i> RIL_DATACOMP_REQUIRED <i>Terminal will disconnect if no negotiation</i>
Comments	None

Data Rate Constants

Description	Defines different protocol dependant data rates
Values	RIL_SPEED_UNKNOWN <i>Unknown speed</i> RIL_SPEED_AUTO <i>Automatic selection of speed</i> RIL_SPEED_300_V21 <i>300 bps (V.21)</i>

RIL_SPEED_300_V110
300 bps (V.100)

RIL_SPEED_1200_V22
1200 bps (V.22)

RIL_SPEED_1200_75_V23
1200/75 bps (V.23)

RIL_SPEED_1200_V110
1200 bps (V.100)

RIL_SPEED_1200_V120
1200 bps (V.120)

RIL_SPEED_2400_V22BIS
2400 bps (V.22bis)

RIL_SPEED_2400_V26TER
2400 bps (V.26ter)

RIL_SPEED_2400_V110
2400 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_2400_V120
2400 bps (V.120)

RIL_SPEED_4800_V32
4800 bps (V.32)

RIL_SPEED_4800_V110
4800 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_4800_V120
4800 bps (V.120)

RIL_SPEED_9600_V32
9600 bps (V.32)

RIL_SPEED_9600_V34
9600 bps (V.34)

RIL_SPEED_9600_V110
9600 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_9600_V120
9600 bps (V.120)

RIL_SPEED_14400_V34
14400 bps (V.34)

RIL_SPEED_14400_V110
14400 bps (V.100 or X.31 flag stuffing)

RIL_SPEED_14400_V120
14400 bps (V.120)

RIL_SPEED_19200_V34
19200 bps (V.34)

RIL_SPEED_19200_V110
19200 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_19200_V120
19200 bps (V.120)

RIL_SPEED_28800_V34
28800 bps (V.34)

RIL_SPEED_28800_V110
28800 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_28800_V120
28800 bps (V.120)

RIL_SPEED_38400_V110
38400 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_38400_V120
38400 bps (V.120)

RIL_SPEED_48000_V110
48000 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_48000_V120
48000 bps (V.120)

RIL_SPEED_56000_V110
56000 bps (V.110 or X.31 flag stuffing)

RIL_SPEED_56000_V120
56000 bps (V.120)

RIL_SPEED_56000_TRANSP
56000 bps (bit transparent)

RIL_SPEED_64000_TRANSP
64000 bps (bit transparent)

Comments None

Dialing Option Constants

Description Dialing options

Values

RIL_DIALOPT_NONE
No options

RIL_DIALOPT_RESTRICTID
Restrict CLI presentation

RIL_DIALOPT_PRESENTID
Allow CLI presentation

RIL_DIALOPT_CLOSEDGROUP
Closed User Group dialing

RIL_DIALOPT_ALL
All options

Comments None

<u>Disconnect Initiation Constants</u>	
Description Values	Disconnect initiation values RIL_DISCINIT_LOCAL <i>Local party initiated</i> RIL_DISCINIT_REMOTE <i>Remote party initiated</i>
Comments	None

<u>Driver defined Radio ON vs OFF State Constants</u>	
Description	Radio ON/OFF states
Values	RIL_RADIOSUPPORT_UNKNOWN <i>The Radio Functionality is in an intermediate state</i>
	RIL_RADIOSUPPORT_OFF <i>The Radio Functionality is OFF (DOES NOT Neccessarily mean safe for flight)</i>
	RIL_RADIOSUPPORT_ON <i>The Radio Functionality is ON</i>
Comments	These values normally depend on the Equipment state

<u>DTMF Duration Constants</u>	
Description	DTMF tone duration default
Values	RIL_DTMFDURATION_DEFAULT <i>TBD</i>
Comments	None

<u>Equipment State Constants</u>	
Description	Equipment states
Values	RIL_EQSTATE_UNKNOWN <i>Unknown</i>
	RIL_EQSTATE_MINIMUM <i>Minimum power state</i>
	RIL_EQSTATE_FULL <i>Full functionality</i>
	RIL_EQSTATE_DISABLETX <i>Transmitter disabled</i>

	RIL_EQSTATE_DISABLERX <i>Receiver disabled</i>
	RIL_EQSTATE_DISABLETXANDRX <i>Transmitter & receiver disabled</i>
Comments	None

Error Constants

Description Values

Error codes

RIL_E_PHONEFAILURE
Unspecified phone failure

RIL_E_NOCONNECTION
RIL has no connection to the phone

RIL_E_LINKRESERVED
RIL's link to the phone is reserved

RIL_E_OPNOTALLOWED
Attempted operation isn't allowed

RIL_E_OPNOTSUPPORTED
Attempted operation isn't supported

RIL_E_PHSIMPINREQUIRED
PH-SIM PIN is required to perform this operation

RIL_E_PHFSIMPINREQUIRED
PH-FSIM PIN is required to perform this operation

RIL_E_PHFSIMPUKREQUIRED
PH-FSIM PUK is required to perform this operation

RIL_E_SIMNOTINSERTED
SIM isn't inserted into the phone

RIL_E_SIMPINREQUIRED
SIM PIN is required to perform this operation

RIL_E_SIMPUKREQUIRED
SIM PUK is required to perform this operation

RIL_E_SIMFAILURE
SIM failure was detected

RIL_E_SIMBUSY
SIM is busy

RIL_E_SIMWRONG
Incorrect SIM was inserted

RIL_E_INCORRECTPASSWORD
Incorrect password was supplied

RIL_E_SIMPIN2REQUIRED
SIM PIN2 is required to perform this operation

- RIL_E_SIMPUK2REQUIRED**
SIM PUK2 is required to perform this operation
- RIL_E_MEMORYFULL**
Storage memory is full
- RIL_E_INVALIDINDEX**
Invalid storage index was supplied
- RIL_E_NOTFOUND**
A requested storage entry was not found
- RIL_E_MEMORYFAILURE**
Storage memory failure
- RIL_E_TEXTSTRINGTOOLONG**
Supplied text string is too long
- RIL_E_INVALIDTEXTSTRING**
Supplied text string contains invalid characters
- RIL_E_DIALSTRINGTOOLONG**
Supplied dial string is too long
- RIL_E_INVALIDDIALSTRING**
Supplied dial string contains invalid characters
- RIL_E_NONNETWORKSVC**
Network service isn't available
- RIL_E_NETWORKTIMEOUT**
Network operation timed out
- RIL_E_EMERGENCYONLY**
Network can only be used for emergency calls
- RIL_E_NETWKPINREQUIRED**
Network Personalization PIN is required to perform this operation
- RIL_E_NETWKPUKREQUIRED**
Network Personalization PUK is required to perform this operation
- RIL_E_SUBSETPINREQUIRED**
Network Subset Personalization PIN is required to perform this operation
- RIL_E_SUBSETPUKREQUIRED**
Network Subset Personalization PUK is required to perform this operation
- RIL_E_SVCPINREQUIRED**
Service Provider Personalization PIN is required to perform this operation
- RIL_E_SVCPUKREQUIRED**
Service Provider Personalization PUK is required to perform this operation
- RIL_E_CORPPINREQUIRED**
Corporate Personalization PIN is required to perform this operation
- RIL_E_CORPPUKREQUIRED**
Corporate Personalization PUK is required to perform this operation
- RIL_E_TELEMATICIWUNSUPPORTED**
Telematic interworking isn't supported

RIL_E_SMTYPE0UNSUPPORTED

Type 0 messages aren't supported

RIL_E_CANTREPLACMSG

Existing message cannot be replaced

RIL_E_PROTOCOLIDERROR

Unspecified error related to the message Protocol ID

RIL_E_DCSUNSUPPORTED

Specified message Data Coding Scheme isn't supported

RIL_E_MSGCLASSUNSUPPORTED

Specified message class isn't supported

RIL_E_DCSERROR

Unspecified error related to the message Data Coding Scheme

RIL_E_CMDCANTBEACTIONED

Specified message Command cannot be executed

RIL_E_CMDUNSUPPORTED

Specified message Command isn't supported

RIL_E_CMDError

Unspecified error related to the message Command

RIL_E_MSGBODYHEADERERROR

Unspecified error related to the message Body or Header

RIL_E_SCBUSY

Message Service Center is busy

RIL_E_NOSCSUBSCRIPTION

No message Service Center subscription

RIL_E_SCSYSTEMFAILURE

Message service Center system failure occurred

RIL_E_INVALIDADDRESS

Specified address is invalid

RIL_E_DESTINATIONBARRED

Message destination is barred

RIL_E_REJECTEDDUPLICATE

Duplicate message was rejected

RIL_E_VPFUNSUPPORTED

Specified message Validity Period Format isn't supported

RIL_E_VPUNSUPPORTED

Specified message Validity Period isn't supported

RIL_E_SIMMSGSTORAGEFULL

Message storage on the SIM is full

RIL_E_NOSIMMSGSTORAGE

SIM isn't capable of storing messages

RIL_E_SIMTOOLKITBUSY

SIM Application Toolkit is busy

RIL_E_SIMDOWNLOADERERROR	<i>SIM data download error</i>
RIL_E_MSGSVCRESERVED	<i>Messaging service is reserved</i>
RIL_E_INVALIDMSGPARAM	<i>One of the message parameters is invalid</i>
RIL_E_UNKNOWNSCADDRESS	<i>Unknown message Service Center address was specified</i>
RIL_E_UNASSIGNEDNUMBER	<i>Specified message destination address is a currently unassigned phone number</i>
RIL_E_MSGBARREDBYOPERATOR	<i>Message sending was barred by an operator</i>
RIL_E_MSGCALLBARRED	<i>Message sending was prevented by outgoing calls barring</i>
RIL_E_MSGXFERREJECTED	<i>Sent message has been rejected by the receiving equipment</i>
RIL_E_DESTINATIONOUTOFSVC	<i>Message could not be delivered because destination equipment is out of service</i>
RIL_E_UNIDENTIFIEDSUBSCRIBER	<i>Sender's mobile ID isn't registered</i>
RIL_E_SVCUNSUPPORTED	<i>Requested messaging service isn't supported</i>
RIL_E_UNKNOWNSUBSCRIBER	<i>Sender isn't recognized by the network</i>
RIL_E_NETWKOUTOFORDER	<i>Long-term network failure</i>
RIL_E_NETWKTEMPFAILURE	<i>Short-term network failure</i>
RIL_E_CONGESTION	<i>Operation failed because of the high network traffic</i>
RIL_E_RESOURCESUNAVAILABLE	<i>Unspecified resources weren't available</i>
RIL_E_SVCNOTSUBSCRIBED	<i>Sender isn't subscribed for the requested messaging service</i>
RIL_E_SVCNOTIMPLEMENTED	<i>Requested messaging service isn't implemented on the network</i>
RIL_E_INVALIDMSGREFERENCE	<i>Invalid message reference value was used</i>
RIL_E_INVALIDMSG	<i>Message was determined to be invalid for unspecified reasons</i>
RIL_E_INVALIDMANDATORYINFO	<i>Mandatory message information is invalid or missing</i>

RIL_E_MSGTYPEUNSUPPORTED

The message type is unsupported

RIL_E_ICOMPATIBLEMSG

Sent message isn't compatible with the network

RIL_E_INFOELEMENTUNSUPPORTED

An information element specified in the message isn't supported

RIL_E_PROTOCOLERROR

Unspesfied protocol error

RIL_E_NETWORKERROR

Unspecified network error

RIL_E_MESSAGINGERROR

Unspecified messaging error

RIL_E_NOTREADY

RIL isn't yet ready to perform the requested operation

RIL_E_TIMEDOUT

Operation timed out

RIL_E_CANCELLED

Operation was cancelled

RIL_E_NONOTIFYCALLBACK

Requested operation requires an RIL notification callback, which wasn't provided

RIL_E_OPFMTUNAVAILABLE

Operator format isn't available

RIL_E_NORESPONSE

Dial operation hasn't received a response for a long time

RIL_E_SECURITYFAILURE

Security failure

RIL_E_RADIOFAILEDINIT

Radio failed to initialize correctly

RIL_E_DRIVERINITFAILED

There was a problem initializing the radio driver

RIL_E_RADIONOTPRESENT

The Radio is not present

Comments . None

Error Class Constants

**Description
Values**

Each RIL error falls into a general error class bucket

0x00

Misc error

0x01

Unspecified phone failure

0x02	<i>Problem with the SIM</i>
0x03	<i>Can't access the network</i>
0x04	<i>Error in the network</i>
0x05	<i>Error in the mobile</i>
0x06	<i>Unsupported by the network</i>
0x07	<i>Unsupported by the mobile</i>
0x08	<i>An invalid parameter was supplied</i>
0x09	<i>Error relating to storage</i>
0x0A	<i>Error relates to the SMSC</i>
0x0B	<i>Error in the destination mobile</i>
0x0C	<i>Unsupported by destination mobile</i>
0x0D	<i>The Radio Module is Off or a radio module may not be present</i>

Comments

In RIL, the low order 16 bits are divided into an 8-bit error class and an 8-bit error value. Use the RILERRORCLASS macro to obtain the error class from a RIL HRESULT.

Error Correction Constants

Description Values

Error correction modes
RIL_ECMODE_UNKNOWN
<i>TBD</i>
RIL_ECMODE_DIRECT
<i>TBD</i>
RIL_ECMODE_BUFFERED
<i>TBD</i>
RIL_ECMODE_NODETECT
<i>TBD</i>
RIL_ECMODE_DETECT
<i>TBD</i>
RIL_ECMODE_ALTERNATIVE
<i>TBD</i>

RIL_ECMODE_OPTIONAL_USEBUFFERED
TBD

RIL_ECMODE_OPTIONAL_USEDIRECT
TBD

RIL_ECMODE_REQUIRED
TBD

RIL_ECMODE_REQUIRED_LAPONLY
TBD

RIL_ECMODE_REQUIRED_ALTERNATIVEONLY
TBD

Comments None

Forwarding Reason Constants

Description Forwarding reasons

Values

RIL_FWDREASON_UNCONDITIONAL
Always forward

RIL_FWDREASON_MOBILEBUSY
Forward when device busy

RIL_FWDREASON_NOREPLY
Forward when no answer

RIL_FWDREASON_UNREACHABLE
Forward device out of service

RIL_FWDREASON_ALLFORWARDING
TBD

RIL_FWDREASON_ALLCONDITIONAL
TBD

Comments None

GPRS Class Constants

Description GPRS Class

Values

RIL_GPRSCLASS_UNKNOWN
GPRS class unknown

RIL_GPRSCLASS_GSMANDGPRS
Simultaneous voice and GPRS data

RIL_GPRSCLASS_GSMORGPRS
Simultaneous voice and GPRS traffic channel, one or other data

RIL_GPRSCLASS_GSMORGPRS_EXCLUSIVE
Either all voice or all GPRS, both traffic channels unmonitored

RIL_GPRSCCLASS_GPRSONLY
Only GPRS
RIL_GPRSCCLASS_GSMONLY
Only circuit switched voice and data

Comments None

GPRS Data Comp Constants

Description GPRS Data Compression
Values **RIL_GPRSDATACOMP_OFF**
 compression off
 RIL_GPRSDATACOMP_ON
 compression off

Comments None

GPRS Delay Class Constants

Description GPRS Delay Class
Values **RIL_GPRSDELAYCLASS_PREDICTIVE1**
 see gsm 02.60
 RIL_GPRSDELAYCLASS_PREDICTIVE2
 see gsm 02.60
 RIL_GPRSDELAYCLASS_PREDICTIVE3
 see gsm 02.60
 RIL_GPRSDELAYCLASS_BESTEFFECT
 see gsm 02.60

Comments None

GPRS Header Comp Constants

Description GPRS Header Compression
Values **RIL_GPRSHEADERCOMP_OFF**
 compression off
 RIL_GPRSHEADERCOMP_ON
 compression off

Comments None

GPRS Mean Throughput Class Constants

Description Values

GPRS Mean Throughput Class
RIL_MEANTHRUCLASS_100 <i>0.22 bits/second</i>
RIL_MEANTHRUCLASS_200 <i>0.44 bits/second</i>
RIL_MEANTHRUCLASS_500 <i>1.11 bits/second</i>
RIL_MEANTHRUCLASS_1000 <i>2.2 bits/second</i>
RIL_MEANTHRUCLASS_2000 <i>4.4 bits/second</i>
RIL_MEANTHRUCLASS_5000 <i>11.1 bits/second</i>
RIL_MEANTHRUCLASS_10000 <i>22 bits/second</i>
RIL_MEANTHRUCLASS_20000 <i>44 bits/second</i>
RIL_MEANTHRUCLASS_50000 <i>111 bits/second</i>
RIL_MEANTHRUCLASS_100000 <i>220 bits/second</i>
RIL_MEANTHRUCLASS_200000 <i>440 bits/second</i>
RIL_MEANTHRUCLASS_500000 <i>1,110 bits/second</i>
RIL_MEANTHRUCLASS_1000000 <i>2,200 bits/second</i>
RIL_MEANTHRUCLASS_2000000 <i>4,400 bits/second</i>
RIL_MEANTHRUCLASS_5000000 <i>11,100 bits/second</i>
RIL_MEANTHRUCLASS_10000000 <i>22,000 bits/second</i>
RIL_MEANTHRUCLASS_20000000 <i>44,000 bits/second</i>
RIL_MEANTHRUCLASS_50000000 <i>111,000 bits/second</i>
RIL_MEANTHRUCLASS_DONTCARE <i>best effort</i>

Comments	Constants represent octets per hour
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GPRS Peak Throughput Class Constants

Description	GPRS Peak Throughput Class
Values	RIL_PEAKTHRUCLASS_8000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_16000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_32000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_64000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_128000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_256000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_512000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_1024000 <i>bits per second</i>
	RIL_PEAKTHRUCLASS_2048000 <i>bits per second</i>

Comments	Constants represent bits per second
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GPRS Precedence Class Constants

Description	GPRS Precedence Class
Values	RIL_GPRSPRECEDENCECLASS_HIGH <i>high priority</i>
	RIL_GPRSPRECEDENCECLASS_NORMAL <i>normal priority</i>
	RIL_GPRSPRECEDENCECLASS_LOW <i>low priority</i>

Comments	None
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GPRS Protocol Constants

Description	GPRS L2 Protocols
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Values	RIL_GPRSL2PROTOCOL_UNKNOWN §3
	RIL_GPRSL2PROTOCOL_NULL <i>none, for PDP type OSP:IHOSS</i>
	RIL_GPRSL2PROTOCOL_PPP <i>Point-to-point protocol for a PDP such as IP</i>
	RIL_GPRSL2PROTOCOL_PAD <i>character stream for X.25 character (triple X PAD) mode</i>
	RIL_GPRSL2PROTOCOL_X25 <i>X.25 L2 (LAPB) for X.25 packet mode</i>
Comments	None See GSM 07.07 10.1.6 for definitions

GPRS Protocol Constants

Description		GPRS Packet Protocols
Values	RIL_GPRSPROTOCOL_UNKNOWN <i>Unknown</i>	
	RIL_GPRSPROTOCOL_X25 <i>ITU-T/CCITT X.25 Layer 4</i>	
	RIL_GPRSPROTOCOL_IP <i>Internet Protocol (IETF STD 5)</i>	
	RIL_GPRSPROTOCOL_IHOSP <i>Internet Hosted Octet Stream Protocol</i>	
	RIL_GPRSPROTOCOL_PPP <i>Point to Point Protocol</i>	
Comments	None	

GPRS Reliability Class Constants

Description		GPRS Reliability Class
Values	RIL_GPRSRELIABILITYCLASS_1 <i>see gsm 03.60</i>	
	RIL_GPRSRELIABILITYCLASS_2 <i>see gsm 03.60</i>	
	RIL_GPRSRELIABILITYCLASS_3 <i>see gsm 03.60</i>	
	RIL_GPRSRELIABILITYCLASS_4 <i>see gsm 03.60</i>	
	RIL_GPRSRELIABILITYCLASS_5 <i>see gsm 03.60</i>	

Comments None

GPRS SMS Constants

Description Values Mobile Originated SMS Service Constants
RIL_MOSMSSERVICE_CIRCUIT
circuit switched
RIL_MOSMSSERVICE_GPRS
GPRS
RIL_MOSMSSERVICE_CIRCUITPREFERRED
use both, circuit switched preferred
RIL_MOSMSSERVICE_GPRSPREFERRED
use both, GPRS preferred

Comments None

HSCSD Air Interface Constants

Description Values HSCSD air interface user rates
RIL_HSCSDAIURATE_UNKNOWN
Air interface rate
RIL_HSCSDAIURATE_9600
9600 bits per second
RIL_HSCSDAIURATE_14400
14400 bits per second
RIL_HSCSDAIURATE_19200
19200 bits per second
RIL_HSCSDAIURATE_28800
28800 bits per second
RIL_HSCSDAIURATE_38400
38400 bits per second
RIL_HSCSDAIURATE_43200
43200 bits per second
RIL_HSCSDAIURATE_57600
57600 bits per second
RIL_HSCSDAIURATE_DEFAULT
A special value that indicates the radio stack should calculate the appropriate number of receive timeslots based on other paramaters

Comments None

HSCSD Special Constants

Description	Special HSCSD receive timeslots value
Values	RIL_HSCSDTIMESLOTS_DEFAULT <i>Indicates that the radio stack should calculate appropriate number of timeslots</i> RIL_HSCSDTIMESLOTSLIMIT_NONE <i>Indicates that number of receive timeslots will not be altered during the next non-transparent HSCSD call</i>
Comments	None

HSCSD Traffic Channel Constants

Description	HSCSD traffic channel codings
Values	RIL_HSCSDCODING_UNKNOWN <i>Unknown channel coding</i> RIL_HSCSDCODING_4800_FULLRATE <i>4800 bits per second</i> RIL_HSCSDCODING_9600_FULLRATE <i>9600 bits per second</i> RIL_HSCSDCODING_14400_FULLRATE <i>14400 bits per second</i> RIL_HSCSDCODING_ALL <i>All channel codings valid</i>
Comments	None

Information Class Constants

Description	Telephony information classes
Values	RIL_INFOCLASS_NONE <i>None</i> RIL_INFOCLASS_VOICE <i>Voice</i> RIL_INFOCLASS_DATA <i>Data</i> RIL_INFOCLASS_FAX <i>Fax</i> RIL_INFOCLASS_SMS <i>SMS</i> RIL_INFOCLASS_DATACIRCUITSYNC <i>Data Circuit synchronous</i>

Data Circuit asynchronous

Dedicated Packet Access

Dedicated PAD Access

All information classes

Comments	None
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ITC Constants

Description	Information transfer capability types
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Values	RIL_ITC_31KHZ
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3.1 kHz

RIL ITC_UDI

Unrestricted Digital Information

Comments	None
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Line Registration Constants

Description	Line registration status values
Line registration status	0: Not registered 1: Registered

Values **RIL REGSTAT_UNKNOWN**

Registration unknown

RIL REGSTAT_UNREGISTERED

Unregistered

RIL REGSTAT_HOME

Registered on home network

RIL REGSTAT_ATTEMPTING

Attempting to register

RIL REGSTAT DENIED

Registration denied

RIL REGSTAT_ROAMING

Registered on roaming network

Comments	None
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Line Status Constants

Description	Line status values
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Values	RIL_LINESTAT_UNKNOWN <i>Unknown</i>
	RIL_LINESTAT_READY <i>Line is ready</i>
	RIL_LINESTAT_UNAVAILABLE <i>Line is unavailable</i>
	RIL_LINESTAT_RINGING <i>Incoming call on the line</i>
	RIL_LINESTAT_CALLINPROGRESS <i>Call in progress</i>
	RIL_LINESTAT_ASLEEP <i>Line is asleep</i>
Comments	None

Lock Facility Constants

Description Values	Facilities for phone locking
	RIL_LOCKFACILITY_CNTRL <i>Lock control curface</i>
	RIL_LOCKFACILITY_PH_SIM <i>Lock phone to SIM card</i>
	RIL_LOCKFACILITY_PH_FSIM <i>Lock phone to first SIM card</i>
	RIL_LOCKFACILITY_SIM <i>Lock SIM card</i>
	RIL_LOCKFACILITY_SIM_PIN2 <i>SIM PIN2 (only for RIL_ChangeLockingPassword())</i>
	RIL_LOCKFACILITY_SIM_FIXEDIALING <i>SIM fixed dialing memory</i>
	RIL_LOCKFACILITY_NETWORKPERS <i>Network personalization</i>
	RIL_LOCKFACILITY_NETWORKSUBPERS <i>Network subset personalization</i>
	RIL_LOCKFACILITY_SERVICEPROVPERS <i>Service provider personalization</i>
Comments	RIL_LOCKFACILITY_CORPPERS <i>Corporate personalization</i>
	None

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Lock Status Constants

Description	Locking status values
Values	RIL_LOCKINGSTATUS_DISABLED <i>Disable</i> RIL_LOCKINGSTATUS_ENABLED <i>Enabled</i>
Comments	None

Maximum lengths Constants

Description	Maximum lengths for string parameters
Values	MAXLENGTH_ADDRESS <i>256</i> MAXLENGTH_SUBADDR <i>256</i> MAXLENGTH_DESCRIPTION <i>256</i> MAXLENGTH_OPERATOR <i>32</i> MAXLENGTH_OPERATOR_LONG <i>32</i> MAXLENGTH_OPERATOR_SHORT <i>16</i> MAXLENGTH_OPERATOR_NUMERIC <i>16</i> MAXLENGTH_SERVCTR <i>256</i> MAXLENGTH_PASSWORD <i>256</i> MAXLENGTH_ERRSHORT <i>256</i> MAXLENGTH_ERRLONG <i>256</i> MAXLENGTH_EQUIPINFO <i>128</i> MAXLENGTH_PHONEBOOKADDR <i>256</i> MAXLENGTH_PHONEBOOKTEXT <i>256</i>

MAXLENGTH_CURRENCY
256
MAXLENGTH_AREAIID
256
MAXLENGTH_CELLID
256
MAXLENGTH_HDR
256
MAXLENGTH_MSG
256
MAXLENGTH_CMD
256
MAXLENGTH_MSGIDS
256
MAXLENGTH_USERID
256
MAXLENGTH_DTMF
256
MAXLENGTH_GPRSADDRESS
256
MAXLENGTH_GPRSACCESSPOINTNAME
256

Comments

None

Message Class Constants

**Description
Values**

Message classes

RIL_MSGCLASS_NONE
TBD

RIL_MSGCLASS_INCOMING
TBD

RIL_MSGCLASS_OUTGOING
TBD

RIL_MSGCLASS_BROADCAST
TBD

RIL_MSGCLASS_ALL
TBD

Comments

None

Message Command Constants

Description	Message command types
Values	RIL_MSGCMDTYPE_STATUSREQ <i>TBD</i> RIL_MSGCMDTYPE_CANCELSTATUSREQ <i>TBD</i> RIL_MSGCMDTYPE_DELETEMESSAGE <i>TBD</i> RIL_MSGCMDTYPE_ENABLESTATUSREQ <i>TBD</i>
Comments	None

Message DCS Constants

Description	Message data coding scheme types
Values	RIL_DCSTYPE_GENERAL <i>TBD</i> RIL_DCSTYPE_MSGWAIT <i>TBD</i> RIL_DCSTYPE_MSGCLASS <i>TBD</i> RIL_DCSTYPE_LANGUAGE <i>TBD</i>
Comments	None

Message DCS Alphabets Constants

Description	Message data coding scheme alphabets
Values	RIL_DCSALPHABET_DEFAULT <i>TBD</i> RIL_DCSALPHABET_8BIT <i>TBD</i> RIL_DCSALPHABET_UCS2 <i>TBD</i>
Comments	None

Message DCS Broadcast Constants

Description	Message broadcast data coding scheme languages
Values	RIL_DCSLANG_NONE <i>TBD</i> RIL_DCSLANG_UNKNOWN <i>TBD</i> RIL_DCSLANG_GERMAN <i>TBD</i> RIL_DCSLANG_ENGLISH <i>TBD</i> RIL_DCSLANG_ITALIAN <i>TBD</i> RIL_DCSLANG_FRENCH <i>TBD</i> RIL_DCSLANG_SPANISH <i>TBD</i> RIL_DCSLANG_DUTCH <i>TBD</i> RIL_DCSLANG_SWEDISH <i>TBD</i> RIL_DCSLANG_DANISH <i>TBD</i> RIL_DCSLANG_PORTUGUESE <i>TBD</i> RIL_DCSLANG_FINNISH <i>TBD</i> RIL_DCSLANG_NORWEGIAN <i>TBD</i> RIL_DCSLANG_GREEK <i>TBD</i> RIL_DCSLANG_TURKISH <i>TBD</i> RIL_DCSLANG_HUNGARIAN <i>TBD</i> RIL_DCSLANG_POLISH <i>TBD</i> RIL_DCSLANG_CZECH <i>TBD</i> RIL_DCSLANG_ALL <i>TBD</i>

Comments None

Message DCS Classes Constants

Description Message data coding scheme message classes
Values **RIL_DCSMSGCLASS_0**

TBD

RIL_DCSMSGCLASS_1

TBD

RIL_DCSMSGCLASS_2

TBD

RIL_DCSMSGCLASS_3

TBD

Comments None

Message DCS Flags Constants

Description Message data coding scheme flags

Values **RIL_DCSFLAG_NONE**

TBD

RIL_DCSFLAG_COMPRESSED

TBD

RIL_DCSFLAG_INDICATIONACTIVE

TBD

RIL_DCSFLAG_DISCARD

Only for RIL_DCSTYPE_MSGWAIT

RIL_DCSFLAG_ALL

TBD

Comments None

Message DCS Indication Constants

Description Message data coding scheme indication types

Values **RIL_DCSINDICATION_VOICEMAIL**

Voicemail indication

RIL_DCSINDICATION_FAX

Fax indication

RIL_DCSINDICATION_EMAIL

E-Mail indication

RIL_DCSINDICATION_OTHER

Other indication

Comments

None

Message Delivery Constants

Description Values

Message delivery status values

RIL_MSGDLVSTATUS_RECEIVEDBYSME

TBD

RIL_MSGDLVSTATUS_FORWARDEDRTOSME

TBD

RIL_MSGDLVSTATUS_REPLACEDBYSC

TBD

RIL_MSGDLVSTATUS_CONGESTION_TRYING

TBD

RIL_MSGDLVSTATUS_SMEBUSY_TRYING

TBD

RIL_MSGDLVSTATUS_SMENOTRESPONDING_TRYING

TBD

RIL_MSGDLVSTATUS_SVCREJECTED_TRYING

TBD

RIL_MSGDLVSTATUS_QUALITYUNAVAIL_TRYING

TBD

RIL_MSGDLVSTATUS_SMEERROR_TRYING

TBD

RIL_MSGDLVSTATUS_CONGESTION

TBD

RIL_MSGDLVSTATUS_SMEBUSY

TBD

RIL_MSGDLVSTATUS_SMENOTRESPONDING

TBD

RIL_MSGDLVSTATUS_SVCREJECTED

TBD

RIL_MSGDLVSTATUS_QUALITYUNAVAIL_TEMP

TBD

RIL_MSGDLVSTATUS_SMEERROR

TBD

RIL_MSGDLVSTATUS_REMOTEPROCERROR

TBD

RIL_MSGDLVSTATUS_INCOMPATIBLEDEST

TBD

RIL_MSGDLVSTATUS_CONNECTIONREJECTED
TBD

RIL_MSGDLVSTATUS_NOTOBTAINABLE
TBD

RIL_MSGDLVSTATUS_NOINTERNETWORKING
TBD

RIL_MSGDLVSTATUS_VPEXPIRED
TBD

RIL_MSGDLVSTATUS_DELETEDBYORIGSME
TBD

RIL_MSGDLVSTATUS_DELETEDBYSC
TBD

RIL_MSGDLVSTATUS_NOLONGEREXISTS
TBD

RIL_MSGDLVSTATUS_QUALITYUNAVAIL
TBD

RIL_MSGDLVSTATUS_RESERVED_COMPLETED
TBD

RIL_MSGDLVSTATUS_RESERVED_TRYING
TBD

RIL_MSGDLVSTATUS_RESERVED_ERROR
TBD

RIL_MSGDLVSTATUS_RESERVED_TMPERROR
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_COMPLETED
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_TRYING
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_ERROR
TBD

RIL_MSGDLVSTATUS_SCSPECIFIC_TMPERROR
TBD

Comments None

Message Flag Constants

**Description
Values**

Message flags

RIL_MSGFLAG_NONE
None

RIL_MSGFLAG_MORETOSEND
More messages to send (valid for RIL_MSGTYPE_IN_DELIVER and RIL_MSGTYPE_IN_STATUS)

RIL_MSGFLAG_REPLYPATH

Message contains a reply path (valid for RIL_MSGTYPE_IN_DELIVER and RIL_MSGTYPE_OUT_SUBMIT)

RIL_MSGFLAG_HEADER

TBD (valid for RIL_MSGTYPE_IN_DELIVER, RIL_MSGTYPE_OUT_SUBMIT, RIL_MSGTYPE_IN_STATUS, and RIL_MSGTYPE_OUT_COMMAND)

RIL_MSGFLAG_REJECTDUPS

TBD (valid for RIL_MSGTYPE_OUT_SUBMIT only)

RIL_MSGFLAG_STATUSREPORTRETURNED

(valid for RIL_MSGTYPE_IN_DELIVER only)

RIL_MSGFLAG_STATUSREPORTREQUESTED

(valid for RIL_MSGTYPE_OUT_SUBMIT and RIL_MSGTYPE_OUT_COMMAND)

RIL_MSGFLAG_CAUSEDBYCOMMAND

(valid for RIL_MSGTYPE_IN_STATUS only)

RIL_MSGFLAG_ALL

All flags are on

Comments

None

Message Geographic Constants

**Description
Values**

Message geographic scopes

RIL_GEOSCOPE_CELL_IMMEDIATE

TBD

RIL_GEOSCOPE_CELL

TBD

RIL_GEOSCOPE_PLMN

TBD

RIL_GEOSCOPE_LOCATIONAREA

TBD

Comments

None

Message Protocol Constants

**Description
Values**

Message protocol IDs

RIL_MSGPROTOCOL_UNKNOWN

TBD

RIL_MSGPROTOCOL_SMETOSME

TBD

RIL_MSGPROTOCOL_IMPLICIT

TBD

RIL_MSGPROTOCOL_TELEX
TBD
RIL_MSGPROTOCOL_TELEFAX_GROUP3
TBD
RIL_MSGPROTOCOL_TELEFAX_GROUP4
TBD
RIL_MSGPROTOCOL_VOICEPHONE
TBD
RIL_MSGPROTOCOL_ERMES
TBD
RIL_MSGPROTOCOL_PAGING
TBD
RIL_MSGPROTOCOL_VIDEOTEX
TBD
RIL_MSGPROTOCOL_TELETEX
TBD
RIL_MSGPROTOCOL_TELETEX_PSPDN
TBD
RIL_MSGPROTOCOL_TELETEX_CSPDN
TBD
RIL_MSGPROTOCOL_TELETEX_PSTN
TBD
RIL_MSGPROTOCOL_TELETEX_ISDN
TBD
RIL_MSGPROTOCOL_UCI
TBD
RIL_MSGPROTOCOL_MSGHANDLING
TBD
RIL_MSGPROTOCOL_X400
TBD
RIL_MSGPROTOCOL_EMAIL
TBD
RIL_MSGPROTOCOL_GSMSTATION
TBD
RIL_MSGPROTOCOL_SM_TYPE0
TBD
RIL_MSGPROTOCOL_RSM_TYPE1
TBD
RIL_MSGPROTOCOL_RSM_TYPE2
TBD
RIL_MSGPROTOCOL_RSM_TYPE3
TBD

RIL_MSGPROTOCOL_RSM_TYPE4
TBD

RIL_MSGPROTOCOL_RSM_TYPE5
TBD

RIL_MSGPROTOCOL_RSM_TYPE6
TBD

RIL_MSGPROTOCOL_RSM_TYPE7
TBD

RIL_MSGPROTOCOL_RETURNCALL
TBD

RIL_MSGPROTOCOL_ME_DOWNLOAD
TBD

RIL_MSGPROTOCOL_DEPERSONALIZATION
TBD

RIL_MSGPROTOCOL_SIM_DOWNLOAD
TBD

Comments None

Message Send Constants

Description Send message options

Values **RIL_SENDOPT_NONE**
TBD

RIL_SENDOPT_PERSISTLINK
TBD

Comments None

Message Service Constants

Description Messaging service types

Values **RIL_MSGSVCTYPE_UNKNOWN**
Unknown

RIL_MSGSVCTYPE_PHASE2
GSM 07.05 Phase 2 ver. 4.7.0 messaging service

RIL_MSGSVCTYPE_PHASE2PLUS
GSM 07.05 Phase 2+ messaging service

Comments None

Message Status Constants

Description	Message status values
Values	RIL_MSGSTATUS_UNKNOWN <i>TBD</i> RIL_MSGSTATUS_RECUNREAD <i>TBD</i> RIL_MSGSTATUS_RECREAD <i>TBD</i> RIL_MSGSTATUS_STOUNSENT <i>TBD</i> RIL_MSGSTATUS_STOSENT <i>TBD</i>
Comments	None

Message Storage Constants

Description	Message storage locations
Values	RIL_MSGLOC_UNKNOWN <i>Unknown</i> RIL_MSGLOC_BROADCAST <i>Broadcast message storage location</i> RIL_MSGLOC_SIM <i>SIM storage location</i> RIL_MSGLOC_STATUSREPORT <i>Status report storage location</i>
Comments	None

Message Type Constants

Description	Message types
Values	RIL_MSGTYPE_IN_DELIVER <i>Incoming message</i> RIL_MSGTYPE_IN_STATUS <i>Incoming status message</i> RIL_MSGTYPE_OUT_SUBMIT <i>Outgoing message</i> RIL_MSGTYPE_OUT_COMMAND <i>Outgoing command message</i>

RIL_MSGTYPE_BC_GENERAL
Broadcast message (incoming only)

Comments None

Message Validity Constants

Description Message validity period formats
Values **RIL_MSGVP_NONE**
TBD
RIL_MSGVP_RELATIVE
TBD
RIL_MSGVP_ENHANCED
TBD
RIL_MSGVP_ABSOLUTE
TBD

Comments None

Notification Call Control Constants

Description Call control notifications (RIL_NCLASS_CALLCTRL)
Values **RIL_NOTIFY_RING**
Incoming call; lpData points to RILRINGINFO
RIL_NOTIFY_CONNECT
Data/voice connection has been established; lpData points to RILCONNECTINFO
RIL_NOTIFY_DISCONNECT
Data/voice connection has been terminated; lpData points to RIL_DISCINIT_ constant*
RIL_NOTIFY_DATASVCNEGOTIATED
Data connection service has been negotiated; lpData points to RILSERVICEINFO
RIL_NOTIFY_CALLSTATECHANGED
RIL has performed an operation that may have changed state of existing calls; lpData is NULL
RIL_NOTIFY_EMERGENCYMODEENTERED
RIL has entered emergency mode; lpData is NULL
RIL_NOTIFY_EMERGENCYMODEEXITED
RIL has exited emergency mode; lpData is NULL
RIL_NOTIFY_EMERGENCYHANGUP
Existing calls (if any) were hung up in RIL emergency mode; lpData is NULL
RIL_NOTIFY_HSCSDPARAMSNEGOTIATED
HSCSD parameters for a call has been negotiated; lpData points to RILCALLHSCSDINFO

	RIL_NOTIFY_DIAL <i>Outgoing call; lpData points to RILDIALINFO</i>
Comments	None

Notification Class Constants

Description	Notification classes
Values	RIL_NCLASS_FUNCRESULT <i>API call results</i> RIL_NCLASS_CALLCTRL <i>Call control notifications</i> RIL_NCLASS_MESSAGE <i>Messaging notifications</i> RIL_NCLASS_NETWORK <i>Network-related notifications</i> RIL_NCLASS_SUPSERVICE <i>Supplementary service notifications</i> RIL_NCLASS_PHONEBOOK <i>Phonebook notifications</i> RIL_NCLASS_SIMTOOLKIT <i>SIM Toolkit notifications</i> RIL_NCLASS_MISC <i>Miscellaneous notifications</i> RIL_NCLASS_RADIOSTATE <i>Notifications Pertaining to changes in Radio State</i> RIL_NCLASS_ALL <i>All notification classes</i>
Comments	None

Notification Messaging Constants

Description	Messaging notifications (RIL_MCLASS_MESSAGE)
Values	RIL_NOTIFY_MESSAGE <i>Incoming message; lpData points to RILMESSAGE</i> RIL_NOTIFY_BCMESSAGE <i>Incoming broadcast message; lpData points to RILMESSAGE</i> RIL_NOTIFY_STATUSMESSAGE <i>Incoming status-report message; lpData points to RILMESSAGE</i> RIL_NOTIFY_MSGSTORED <i>A message has been added to storage; lpData points to the storage index assigned to the new message</i>

RIL_NOTIFY_MSGDELETED

A message has been deleted from storage; lpData points to the storage index occupied by the deleted message

RIL_NOTIFY_MSGSTORAGECHANGED

One of the message storage locations has been changed; lpData points to RILMSGSTORAGEINFO

RIL_NOTIFY_MESSAGE_IN_SIM

Incoming message stored to SIM; lpData points to the storage RILMESSAGE_IN_SIM

RIL_NOTIFY_BCMESAGE_IN_SIM

Incoming broadcast message stored to SIM; lpData points to RILMESSAGE_IN_SIM

RIL_NOTIFY_STATUSMESSAGE_IN_SIM

Incoming status-report message stored to SIM; lpData points to RILMESSAGE_IN_SIM

Comments

None

Notification Misc Constants

**Description
Values**

Miscellaneous notifications (RIL_NCLASS_MISC)

RIL_NOTIFY_SIMNOTACCESSIBLE

SIM card has been removed or has failed to respond; lpData is NULL

RIL_NOTIFY_DTMFSIGNAL

A DTMF signal has been detected; lpData points to char

RIL_NOTIFY_GPRSCCLASS_NETWORKCHANGED

Network has indicated a change in GPRS class lpData points to a DWORD containing the new RIL_GPRSCCLASS_ value*

RIL_NOTIFY_GPRSCCLASS_RADIOCHANGED

The radio has indicated a change in GPRS class lpData points to a DWORD containing the new RIL_GPRSCCLASS_ value*

Comments

None

Notification Network Constants

**Description
Values**

Network-related notifications (RIL_NCLASS_NETWORK)

RIL_NOTIFY_REGSTATUSCHANGED

Network registration status has changed; lpData points to the new status (RIL_REGSTAT_ constant)*

RIL_NOTIFY_CALLMETER

Call meter has changed; lpData points to a DWORD containing new current call meter value

RIL_NOTIFY_CALLMETERMAXREACHED

Call meter maximum has been reached; lpData is NULL

RIL_NOTIFY_GPRSREGSTATUSCHANGED

Network registration status has changed; lpData points to the new status (RIL_REGSTAT_ constant)*

Comments None

Notification Phonebook Constants

**Description
Values**

Phonebook notifications (RIL_NCLASS_PHONEBOOK)

RIL_NOTIFY_PHONEBOOKENTRYSTORED

A phonebook entry has been added to storage; lpData points to the storage index assigned to the new entry (ifdwIndex is RIL_PBINDEX_FIRSTAVAILABLE, the new entry was stored in the first available location)

RIL_NOTIFY_PHONEBOOKENTRYDELETED

A phonebook entry has been deleted from storage; lpData points to the storage index occupied by the deleted entry

RIL_NOTIFY_PHONEBOOKSTORAGECHANGED

Phonebook storage location has been changed; lpData points to RIL_PBLOC_ constant*

Comments None

Notification Radio State Change Constants

**Description
Values**

Radio State Change notifications (RIL_NCLASS_RADIOSTATE)

RIL_NOTIFY_RADIOEQUIPMENTSTATECHANGED

Carries a STRUCT (RILEQUIPMENTSTATE) stating The Radio equipmentstate has changed, also notifies a driver defined Radio ON or OFF state

RIL_NOTIFY_RADIOPRESENCECHANGED

Carries a dword (RIL_RADIOPRESENCE_) stating that a Radio Module/Driver has been changed (removed, inserted, etc)*

Comments None

Notification Supplementary Service Constants

**Description
Values**

Supplementary service notifications (RIL_NCLASS_SUPSERVICE)

RIL_NOTIFY_CALLERID

Incoming call CallerID information; lpData points to RILREMOTEPARTYINFO

RIL_NOTIFY_DIALEDID

Initiated call DialedID information; lpData points to RILREMOTEPARTYINFO

Call Waiting information; lpData points to RILCALLWAITINGINFO

Ustructured supplementary service data; *lpData* points to *RILSUPSERVICEDATA*

Comments

None

Notification Toolkit Constants

Description Values

SIM Toolkit notifications (RIL_NCLASS_SIMTOOLKIT)

RIL NOTIFY_SIMTOOLKITCMD

A SIM Toolkit command was not handled by the radio; lpData points to array of bytes containing the command

RIL NOTIFY SIMTOOLKITCALLSETUP

SIM Toolkit is trying to set up a call and call conditions were successfully checked by the radio; lpData points to a DWORD containing the redial timeout for the call (in milliseconds)

RIL_NOTIFY_SIMTOOLKITEVENT

A SIM Toolkit command was handled by the radio or the radio sent a Sim Toolkit command response to the SIM; lpData points to array of bytes containing the command or response sent

RIL_NOTIFY_SIMTOOLKITSESSIONEND

A SIM Toolkit command session is ending

Comments

None

Numbering Plan Constants

Description	Values
1. General Information	
1.1. Project Name	Project X
1.2. Project Manager	John Doe
1.3. Project Start Date	2023-01-01
1.4. Project End Date	2023-12-31
1.5. Project Budget	\$1,000,000
1.6. Project Status	In Progress
1.7. Project Location	New York, NY
1.8. Project Description	Develop a new software application for project management.
1.9. Project Objectives	Complete development, testing, and deployment by the end of the year.
1.10. Project Risks	Scope creep, budget overruns, and resource availability.
1.11. Project Deliverables	Software application, user manual, and training materials.
1.12. Project Stakeholders	Project Manager, Project Sponsor, Project Team, and End Users.
1.13. Project Communication Plan	Weekly status reports, monthly steering committee meetings, and ad-hoc communication as needed.
1.14. Project Change Management Plan	Changes must be approved by the Project Manager and the Project Sponsor.
1.15. Project Risk Management Plan	Identify risks, assess impact, and develop mitigation strategies.
1.16. Project Quality Management Plan	Define quality standards, develop test cases, and conduct regular quality reviews.
1.17. Project Resource Management Plan	Identify resources, allocate resources, and track resource usage.
1.18. Project Procurement Management Plan	Identify procurement needs, develop procurement strategy, and manage procurement process.
1.19. Project Stakeholder Management Plan	Identify stakeholders, develop communication strategy, and manage stakeholder expectations.
1.20. Project Integration Management Plan	Define project integration, develop project plan, and manage project changes.
1.21. Project Monitoring and Control Plan	Define project monitoring and control, develop project dashboard, and manage project performance.
1.22. Project Closing Management Plan	Define project closing, develop project closure checklist, and manage project closure.
1.23. Project Post-Mortem Plan	Conduct project post-mortem, identify lessons learned, and implement improvements.
1.24. Project Archiving Plan	Define project archiving, develop project archiving checklist, and manage project archiving.
1.25. Project Reporting Plan	Define project reporting, develop project reporting dashboard, and manage project reporting.
1.26. Project Documentation Plan	Define project documentation, develop project documentation checklist, and manage project documentation.
1.27. Project Training Plan	Define project training, develop project training materials, and manage project training.
1.28. Project Communication Plan	Define project communication, develop project communication strategy, and manage project communication.
1.29. Project Change Management Plan	Define project change management, develop project change management strategy, and manage project change management.
1.30. Project Risk Management Plan	Define project risk management, develop project risk management strategy, and manage project risk management.
1.31. Project Quality Management Plan	Define project quality management, develop project quality management strategy, and manage project quality management.
1.32. Project Resource Management Plan	Define project resource management, develop project resource management strategy, and manage project resource management.
1.33. Project Procurement Management Plan	Define project procurement management, develop project procurement management strategy, and manage project procurement management.
1.34. Project Stakeholder Management Plan	Define project stakeholder management, develop project stakeholder management strategy, and manage project stakeholder management.
1.35. Project Integration Management Plan	Define project integration management, develop project integration management strategy, and manage project integration management.
1.36. Project Monitoring and Control Plan	Define project monitoring and control, develop project monitoring and control strategy, and manage project monitoring and control.
1.37. Project Closing Management Plan	Define project closing management, develop project closing management strategy, and manage project closing management.
1.38. Project Post-Mortem Plan	Define project post-mortem, develop project post-mortem strategy, and manage project post-mortem.
1.39. Project Archiving Plan	Define project archiving, develop project archiving strategy, and manage project archiving.
1.40. Project Reporting Plan	Define project reporting, develop project reporting strategy, and manage project reporting.
1.41. Project Documentation Plan	Define project documentation, develop project documentation strategy, and manage project documentation.
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1.52. Project Closing Management Plan	Define project closing management, develop project closing management strategy, and manage project closing management.
1.53. Project Post-Mortem Plan	Define project post-mortem, develop project post-mortem strategy, and manage project post-mortem.
1.54. Project Archiving Plan	Define project archiving, develop project archiving strategy, and manage project archiving.
1.55. Project Reporting Plan	Define project reporting, develop project reporting strategy, and manage project reporting.
1.56. Project Documentation Plan	Define project documentation, develop project documentation strategy, and manage project documentation.
1.57. Project Training Plan	Define project training, develop project training strategy, and manage project training.
1.58. Project Communication Plan	Define project communication, develop project communication strategy, and manage project communication.
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1.61. Project Quality Management Plan	Define project quality management, develop project quality management strategy, and manage project quality management.
1.62. Project Resource Management Plan	Define project resource management, develop project resource management strategy, and manage project resource management.
1.63. Project Procurement Management Plan	Define project procurement management, develop project procurement management strategy, and manage project procurement management.
1.64. Project Stakeholder Management Plan	Define project stakeholder management, develop project stakeholder management strategy, and manage project stakeholder management.
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1.83. Project Post-Mortem Plan	Define project post-mortem, develop project post-mortem strategy, and manage project post-mortem.
1.84. Project Archiving Plan	Define project archiving, develop project archiving strategy, and manage project archiving.
1.85. Project Reporting Plan	Define project reporting, develop project reporting strategy, and manage project reporting.
1.86. Project Documentation Plan	Define project documentation, develop project documentation strategy, and manage project documentation.

Different numbering schemes

RIL NUMPLAN UNKNOWN

Unknown numbering plan

RIL NUMPLAN TELEPHONE

ISDN/telephone numbering plan (E.164/E.163)

RIL NUMPLAN DATA

Data numbering plan (X.121)

RIL_NUMPLAN_TELEX

Telex numbering plan

RIL NUMPLAN NATIONAL

National numbering plan

RIL_NUMPLAN_PRIVATE

Private numbering plan

RIL_NUMPLAN_ERMES

ERMES numbering plan (ETSI DE/PS 3 01-3)

Comments	Used for <i>RIL_ADDRTYPE_UNKNOWN</i> , <i>RIL_ADDRTYPE_INTERNATIONAL</i> , and <i>RIL_ADDRTYPE_NATIONAL</i>
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Operator Name Constants

Description	Operator name formats
Values	RIL_OPFORMAT_LONG <i>Long alphanumeric name</i> RIL_OPFORMAT_SHORT <i>Short alphanumeric name</i> RIL_OPFORMAT_NUM <i>Numeric name</i>

Comments	None
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Operator Selection Constants

Description	Operator selection modes
Values	RIL_OPSELMODE_AUTOMATIC <i>Automatic operator selection</i> RIL_OPSELMODE_MANUAL <i>Manual operator selection</i> RIL_OPSELMODE_MANUALAUTOMATIC <i>Manual/automatic operator selection (if manual selection fails, automatic selection mode is entered)</i>

Comments	None
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Operator Special Constants

Description	Special preferred operator index value
Values	RIL_PREFOPINDEX_FIRSTAVAILABLE <i>Used to specify that a preferred operator is to be stored at the first available index</i>

Comments	None
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Operator Status Constants

Description	Operator status values
Values	RIL_OPSTATUS_UNKNOWN <i>Unknown status</i>

	RIL_OPSTATUS_AVAILABLE <i>Operator is available</i>
	RIL_OPSTATUS_CURRENT <i>Operator is current</i>
	RIL_OPSTATUS_FORBIDDEN <i>Operator is forbidden</i>
Comments	None

Phone Locked Constants

Description	Phone locked states
Values	RIL_LOCKEDSTATE_UNKNOWN <i>Locking state unknown</i>
	RIL_LOCKEDSTATE_READY <i>ME not locked</i>
	RIL_LOCKEDSTATE_SIM_PIN <i>ME awaiting PIN</i>
	RIL_LOCKEDSTATE_SIM_PUK <i>ME awaiting PUK</i>
	RIL_LOCKEDSTATE_PH_SIM_PIN <i>ME awaiting phone-to-sim password</i>
	RIL_LOCKEDSTATE_PH_FSIM_PIN <i>ME awaiting phone-to-first-sim password</i>
	RIL_LOCKEDSTATE_PH_FSIM_PUK <i>ME awaiting phone-to-first-sim PUK</i>
	RIL_LOCKEDSTATE_SIM_PIN2 <i>ME awaiting PIN2/CHV2</i>
	RIL_LOCKEDSTATE_SIM_PUK2 <i>ME awaiting PUK2</i>
	RIL_LOCKEDSTATE_PH_NET_PIN <i>ME awaiting network personilization PIN</i>
	RIL_LOCKEDSTATE_PH_NET_PUK <i>ME awaiting network personilization PUK</i>
	RIL_LOCKEDSTATE_PH_NETSUB_PIN <i>ME awaiting network subset personilization PIN</i>
	RIL_LOCKEDSTATE_PH_NETSUB_PUK <i>ME awaiting network subset personilization PUK</i>
	RIL_LOCKEDSTATE_PH_SP_PIN <i>ME awaiting service provider PIN</i>
	RIL_LOCKEDSTATE_PH_SP_PUK <i>ME awaiting service provider PUK</i>

RIL_LOCKEDSTATE_PH_CORP_PIN
ME awaiting corporate personilzation PIN
RIL_LOCKEDSTATE_PH_CORP_PUK
ME awaiting corporate personilzation PUK

Comments None

Phonebook Storage Constants

Description Phonebook storage locations
Values **RIL_PBLOC_UNKNOWN**
Unknown
RIL_PBLOC_SIMEMERGENCY
Emergency numbers
RIL_PBLOC_SIMFIXDIALING
Fixed dialing
RIL_PBLOC_SIMLASTDIALING
Recent calls list
RIL_PBLOC_OWNNUMBERS
TBD
RIL_PBLOC_SIMPHONEBOOK
SIM phonebook

Comments None

Radio Presence States Constants

Description Radio Presence States
Values **RIL_RADIOPRESENCE_NOTPRESENT**
There is not radio module present in the device
RIL_RADIOPRESENCE_PRESENT
There is a radio module present that RIL can use

Comments These states are determined by whether the driver is loaded or not

Remote Party Constants

Description Remote party information validity types
Values **RIL_REMOTEPARTYINFO_VALID**
Information valid
RIL_REMOTEPARTYINFO_WITHHELD
Information withheld by other user

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RIL_REMOTEPARTYINFO_UNAVAILABLE
Network unable to send info

Comments None

Signal Strength Constants

Description Special signal strength value
Values **RIL_SIGNALSTRENGTH_UNKNOWN**
 Unknown signal strength

Comments None

SIM Command Constants

Description SIM commands
Values **RIL_SIMCMD_READBINARY**
 Read a binary
RIL_SIMCMD_READRECORD
 Read contents of a record
RIL_SIMCMD_GETRESPONSE
 Required to get output data for some commands
RIL_SIMCMD_UPDATEBINARY
 Update a transparent file
RIL_SIMCMD_UPDATERECORD
 Update a linear fixed or cyclic file
RIL_SIMCMD_STATUS
 Get status on a file

Comments None

SIM Record Constants

Description Different SIM file types
Values **RIL_SIMRECORDTYPE_UNKNOWN**
 An unknown file type
RIL_SIMRECORDTYPE_TRANSPARENT
 A single variable lengthed record
RIL_SIMRECORDTYPE_CYCLIC
 A cyclic set of records, each of the same length
RIL_SIMRECORDTYPE_LINEAR
 A linear set of records, each of the same length

RIL_SIMRECORDTYPE_MASTER

Every SIM has a single master record, effectively the head node

RIL_SIMRECORDTYPE_DEDICATED

Effectively a "directory" file which is a parent of other records

Comments

None

SIM Toolkit Terminate Constants

Description

SIM Toolkit session termination causes

Values

RIL_SIMKITTERMCAUSE_USERSTOPPEDREDIAL

User stopped redial attempts

RIL_SIMKITTERMCAUSE_ENDOFREDIAL

End of redial period

RIL_SIMKITTERMCAUSE_USERENDEDSESSION

Session terminated by user

Comments

None

Special Phonebook Constants

Description

Special phonebook index value

Values

RIL_PBINDEX_FIRSTAVAILABLE

User first available entry

Comments

None

Subaddress Type Constants

Description

Supplementary service data status values

Values

RIL_SUPSVCDATASTATUS_NOINFOREQUIRED

TBD

RIL_SUPSVCDATASTATUS_FURTHERINFOREQUIRED

TBD

RIL_SUPSVCDATASTATUS_TERMINATED

TBD

RIL_SUPSVCDATASTATUS_OTHERCLIENTRESPONDED

TBD

RIL_SUPSVCDATASTATUS_UNSUPPORTED

TBD

RIL_SUPSVCDATASTATUS_TIMEOUT

TBD

RIL_SUPSVCDATASTATUS_ERROR
TBD

Comments None

Subaddress Type Constants

Description Different subaddress types
Values **RIL_SUBADDRTYPE_NSAP**
NSAP subaddress (X.213/ISO 8348 AD2)
RIL_SUBADDRTYPE_USER
User defined subaddress

Comments None

Supplemental Activation Constants

Description Supplementary service status values
Values **RIL_SVCSTAT_UNKNOWN**
Unknown status
RIL_SVCSTAT_DISABLED
Service is disabled
RIL_SVCSTAT_ENABLED
Service is enabled
RIL_SVCSTAT_DEFAULT
Default status

Comments None

Supplementary Service Provisioning Constants

Description Supplementary service provisioning values
Values **RIL_SVCPROV_UNKNOWN**
Unknown provisioning
RIL_SVCPROV_NOTPROVISIONED
Service isn't provisioned
RIL_SVCPROV_PROVISIONED
Service is provisioned
RIL_SVCPROV_TEMPMODERESTRICTED
Service temporary mode is restricted
RIL_SVCPROV_TEMPMODEALLOWED
Service temporary mode is allowed

Comments None

Telephony Service Constants

Description Telephony service types
Values **RIL_SERVICE_UNKNOWN**
 Unknown service
RIL_SERVICE_MODEM_ASYNC
 Asynchronous modem
RIL_SERVICE_MODEM_SYNC
 Synchronous modem
RIL_SERVICE_PADACCESS_ASYNC
 PAD Access (asynchronous)
RIL_SERVICE_PACKETACCESS_SYNC
 Packet Access (synchronous)
RIL_SERVICE_VOICE
 Voice
RIL_SERVICE_FAX
 Fax

Comments None

Unavailable Constants

Description Detailed reason for support of toolkit functions
Values **RIL_SIMTKN_MEIMPLEMENTS**
 The ME must implement this notification
RIL_SIMTKN_RADIOIMPLEMENTS_NONOTIFICATION
 The radio will implement and not give a notification to the ME
RIL_SIMTKN_RADIOIMPLEMENTS_NOTIFICATION
 The radio will implement and give a notification to the ME that it was done
RIL_SIMTKN_RADIOIMPLEMENTS_REQUESTMEINPUT
 The radio will implement, but requests information from the ME first

Comments Values that variables information variables in RILSIMTOOLKITNOTIFYCAPS can take on

RIL AddCallForwarding

HRESULT RIL_AddCallForwarding(**HRIL** *hRil*, **DWORD** *dwReason*, **const RILCALLFORWARDINGSETTINGS*** *lpSettings*, **DWORD** *dwAddressId*)
Adds a Call Forwarding rule

Parameters	<i>hRil</i>
	handle to RIL instance returned by RIL_Initialize
	<i>dwReason</i>
	forwarding reason to add Call Forwarding for (<i>RIL_FWDREASON_</i> constant)
	<i>lpSettings</i>
	settings for the new Call Forwarding rule
	<i>dwAddressId</i>
	address ID of line on which to change call forwarding settings
Comments	Asynchronous. <i>lpData</i> is <i>NULL</i> .

RIL_AddPreferredOperator

HRESULT RIL_AddPreferredOperator(HRIL hRil, DWORD dwIndex, const RIOPERATORNAMES* lpOperatorNames)

Adds a specified operator to the list of preferred operators

Parameters	<i>hRil</i>
	handle to RIL instance returned by RIL_Initialize
	<i>dwIndex</i>
	storage index to use for the added operator
	<i>lpOperatorNames</i>
	operator name

Comments	Asynchronous. <i>lpData</i> is <i>NULL</i> .
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RIL_Answer

HRESULT RIL_Answer(HRIL hRil)

Answers an incoming call

Parameters	<i>hRil</i>
	handle to RIL instance returned by RIL_Initialize

Comments	Asynchronous. <i>lpData</i> is <i>NULL</i> .
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RIL_CancelSupServiceDataSession

HRESULT RIL_CancelSupServiceDataSession(HRIL hRil)

Cancels current supplementary service session

Parameters	<i>hRil</i>
	handle to RIL instance returned by RIL_Initialize

Comments	TBD
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RIL ChangeCallBarringPassword

HRESULT RIL_ChangeCallBarringPassword(HRIL hRil, DWORD dwType, LPCSTR lpwszOldPassword, LPCSTR lpwszNewPassword)

Changes password for the specified type of call barring

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwType

type of call barring to retrieve status for (*RIL_BARRTYPE_* constant)

lpwszOldPassword

current password (no longer than *MAXLENGTH_PASSWORD* chars)

lpwszNewPassword

new password (no longer than *MAXLENGTH_PASSWORD* chars)

Comments

Asynchronous. *lpData* is *NULL*.

RIL ChangeLockingPassword

HRESULT RIL_ChangeLockingPassword(HRIL hRil, DWORD dwFacility, LPCSTR lpszOldPassword, LPCSTR lpszNewPassword)

Changes locking password for the specified facility

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwFacility

facility to change locking password for (*RIL_LOCKFACILITY_* constant)

lpszOldPassword

current locking password (no longer than *MAXLENGTH_PASSWORD* chars)

lpszNewPassword

new locking password (no longer than *MAXLENGTH_PASSWORD* chars)

Comments

Asynchronous. *lpData* is *NULL*.

RIL ClearCCBSRegistration

HRESULT RIL_ClearCCBSRegistration(HRIL hRil, DWORD dwCCBSIndex)

Clears registration for a Completion of Call to Busy Subscriber index. Activation of CCBS is used by calling *RIL_ManageCalls* using the *RIL_CALLCMD_INVOKECCBS* flag.

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwCCBSIndex

indicates which entry to clear, may be *RIL_CCBS_ALL*

Comments

Asynchronous. *lpData* is *NULL*.

RIL_Deinitialize

HRESULT RIL_Deinitialize(HRIL hRil)

Deinitializes RIL

Parameters

hRil

handle to an RIL instance returned by **RIL_Initialize**

Comments

Synchronous

RIL_DeleteGPRSContext

HRESULT RIL_DeleteGPRSContext(HRIL hRil, DWORD dwContextID)

Deletes a particular GPRS context

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwContextID

identifies which context to delete

Comments

Asynchronous. *lpData* is *NULL*.

RIL_DeleteMinimumQualityOfService

HRESULT RIL_DeleteMinimumQualityOfService(HRIL hRil, DWORD dwContextID)

Deletes the minimum quality of service profile for a context

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwContextID

identifies which profile to delete

Comments

Asynchronous. *lpData* is *NULL*.

RIL_DeleteMsg

HRESULT RIL_DeleteMsg(HRIL hRil, DWORD dwIndex)

Deletes a message from the current storage location

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwIndex

index of the message to be deleted

Comments

Asynchronous. *lpData* is *NULL*.

RIL DeletePhonebookEntry

HRESULT RIL_DeletePhonebookEntry(HRIL hRil, DWORD dwIndex)

Deletes a phonebook entry from the current storage location

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwIndex

index of the entry to delete

Comments

Asynchronous. *lpData* is *NULL*.

RIL DeleteRequestedQualityOfService

HRESULT RIL_DeleteRequestedQualityOfService(HRIL hRil, DWORD dwContextID)

Deletes the requested quality of service profile for a context

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwContextID

identifies which profile to delete

Comments

Asynchronous. *lpData* is *NULL*.

RIL DevSpecific

HRESULT RIL_DevSpecific(HRIL hRil, const BYTE* lpbParams, DWORD dwSize)

Performs an implementation-specific operation

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

lpbParams

parameters for the operation to be performed

dwSize

size of the data pointed to by *lpParams* in bytes

Comments

Asynchronous. *lpData* points to an array of **BYTES**.

RIL Dial

HRESULT RIL_Dial(HRIL hRil, LPCSTR lpszAddress, DWORD dwType, DWORD dwOptions, DWORD dwAddressId)

Dials a specified address

Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize
	<i>lpszAddress</i> address to dial (no longer than <i>MAXLENGTH_ADDRESS</i> chars)
	<i>dwType</i> type of the call to establish (<i>RIL_CALLTYPE_</i> constant)
	<i>dwOptions</i> dialing options (any combination of <i>RIL_DIALOPT_</i> constants)
	<i>dwAddressId</i> address ID of the line on which to dial out
Comments	Asynchronous. <i>lpData</i> is <i>NULL</i> .

RIL_DisableNotifications

HRESULT RIL_DisableNotifications(HRIL hRil, DWORD dwNotificationClasses)
Disables classes of notifications for this client

Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize
	<i>dwNotificationClasses</i> classes of notifications to disable
Comments	Synchronous

RIL_EnableNotifications

HRESULT RIL_EnableNotifications(HRIL hRil, DWORD dwNotificationClasses)
Enables additional classes of notifications for this client

Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize
	<i>dwNotificationClasses</i> classes of notifications to enable
Comments	Synchronous

RIL_EnterGPRSDataMode

HRESULT RIL_EnterGPRSDataMode(HRIL hRil, const RILENTERGPRSDATAMODE* lpEnterGprsDataMode)
Enters into GPRS data state

Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize

lpEnterGprsDataMode
points to a **RILENTERGPRSDATAMODE** structure

Comments Asynchronous. *lpData* if *NULL*.

RIL FetchSimToolkitCmd

HRESULT RIL_FetchSimToolkitCmd(HRIL hRil)

Fetches a SIM Toolkit command from the SIM

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to an array of **BYTE**s containing a fetched command.

RIL GetAudioDevices

HRESULT RIL_GetAudioDevices(HRIL hRil)

Retrieves currently used transmit and receive audio devices

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to an **RILAUDIODEVICEINFO** structure.

RIL GetAudioGain

HRESULT RIL_GetAudioGain(HRIL hRil)

Retrieves audio gain information

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to an **RILGAININFO** structure.

RIL GetAudioMuting

HRESULT RIL_GetAudioMuting(HRIL hRil)

Determines whether the input audio device is muted

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to a **BOOL**.

RIL_GetBearerServiceOptions

HRESULT RIL_GetBearerServiceOptions(HRIL hRil)

Retrieves currently set data bearer service options

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to an **RILBEARERSVCINFO** structure.

RIL_GetCallBarringStatus

HRESULT RIL_GetCallBarringStatus(HRIL hRil, DWORD dwType, DWORD dwInfoClass, LPCSTR lpszPassword)

Retrieves status of the specified type of call barring

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwType

type of call barring to retrieve status for (**RIL_BARRTYPE_** constant)

dwInfoClass

information class to retrieve barring status for (**RIL_INFOCLASS_** constant)

lpszPassword

password to retrieve barring status (can be *NULL* if password isn't required; no longer than **MAXLENGTH_PASSWORD** chars)

Comments

Asynchronous. *lpData* points to a **DWORD** containing a **RIL_BARRINGSTATUS** constant.

RIL_GetCallerIdSettings

HRESULT RIL_GetCallerIdSettings(HRIL hRil)

Retrieves the current CallerID settings

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to an **RILCALLERIDSETTINGS** structure.

RIL_GetCallForwardingSettings

HRESULT RIL_GetCallForwardingSettings(HRIL hRil, DWORD dwReason, DWORD dwAddressId)

Retrieves current Call Forwarding rules

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwReason

forwarding reason to retrieve the settings for (*RIL_FWDREASON_* constant)

dwAddressId

address ID of line on which to get call forwarding settings

Comments

Asynchronous. *lpData* points to an array of **RILCALLFORWARDINGSETTINGS** structure.

RIL_GetCallList

HRESULT RIL_GetCallList(HRIL hRil)

Retrieves the list of active, held, and waiting calls

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to an array of **RILCALLINFO** structures.

RIL_GetCallWaitingSettings

HRESULT RIL_GetCallWaitingSettings(HRIL hRil)

Retrieves info classes that Call Waiting is currently enabled for

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

Comments

Asynchronous. *lpData* points to DWORD containing a combination of *RIL_INFOCLASS_* constants.

RIL_GetCCBSStatus

HRESULT RIL_GetCCBSStatus(HRIL hRil, DWORD dwCCBSIndex)

Retrieves the status for a Completion of Call to Busy Subscriber index.

Parameters

hRil

handle to RIL instance returned by **RIL_Initialize**

dwCCBSIndex

indicates which entry to query

Comments

Asynchronous. If active, *lpData* points to an array of **chars** indicating the phone number for which CCBS is active. If CCBS is not active for that entry, *lpData* is *NULL*.

RIL_GetCellTowerInfo

HRESULT RIL_GetCellTowerInfo(HRIL hRil)

Retrieves information about the cell tower currently used by the phone

Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize
Comments	Asynchronous. <i>lpData</i> points to a RILCELLTOWERINFO structure.

RIL_GetClosedGroupSettings

	HRESULT RIL_GetClosedGroupSettings(HRIL hRil) Retrieves the current Closed User Group settings
Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize
Comments	Asynchronous. <i>lpData</i> points to an RILCLOSEDGROUPSETTINGS structure.

RIL_GetCostInfo

	HRESULT RIL_GetCostInfo(HRIL hRil) Retrieves advice-of-charge settings
Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize
Comments	Asynchronous. <i>lpData</i> points to a RILCOSTINFO structure. This feature is not used in Stinger and is untested.

RIL_GetCurrentAddressId

	HRESULT RIL_GetCurrentAddressId(HRIL hRil) Retrieves the current address identifier (see RILSUBSCRIBERINFO)
Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize
Comments	Asynchronous. <i>lpData</i> points to a DWORD identifying the current address ID.

RIL_GetCurrentOperator

	HRESULT RIL_GetCurrentOperator(HRIL hRil, DWORD dwFormat) Retrieves the operator the ME is currently registered with
Parameters	<i>hRil</i> handle to RIL instance returned by RIL_Initialize() <i>dwFormat</i> format of the operator name to return (RIL_OPFORMAT_ constant)
Comments	Asynchronous. <i>lpData</i> points to an RILOPERATORNAMES structure.